UPPER COOK INLET COMMERCIAL FISHERIES

ANNUAL MANAGEMENT REPORT, 1992

By

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Regional Information Report[1] 2A93-17

Submitted by:

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INTRODUCTION

The Upper Cook Inlet management area consists of that portion of Cook Inlet north of the latitude of Anchor Point and is divided into the Central and Northern Districts (Figure 1). The Central District is approximately 75 mi long, averages 32 mi in width, and is further subdivided into six subdistricts. The Northern District is 50 mi long, averages 20 mi in width and is divided into two subdistricts. At present, all five species of Pacific salmon (*Oncorhyncus*), razor clams (*Siliqua patula*), and Pacific herring (*Clupea harengus pallasi*) are subject to commercial harvest in Upper Cook Inlet. Harvest statistics are gathered and reported by five-digit statistical areas and sub-areas (Figure 2).

Salmon

Since the inception of a commercial fishery in 1882, many gear types, including fish traps, gillnets, and seines have been employed with varying degrees of success to harvest salmon in Upper Cook Inlet. Currently, set (fixed) gillnets are the only gear permitted in the Northern District, while both set and drift gillnets are used in the Central District. The use of seine gear is restricted to the Chinitna Bay Subdistrict where they are employed only sporadically. Drift gillnets have accounted for 60% of the average annual salmon harvest since 1966 with set gillnets harvesting virtually all of the remainder (Appendix A.1-6).

Commercial salmon harvest statistics specific to gear type and area are available only back to 1954 (Appendix A.7). Run-timing and migration routes utilized by all species overlap to such a degree that the commercial fishery is largely mixed-stock and mixed-species in nature. Typically, the Upper Cook Inlet harvest represents approximately 5% of the statewide catch.

In terms of their economic value, sockeye salmon (*O. nerka*) are by far the most important component of the catch followed by coho (*O. kisutch*), chum (*O. keta*), pink (*O. gorbuscha*) and chinook salmon (*O. tshawytscha*) (Appendix A.8).

Herring

Commercial herring fishing began in Upper Cook Inlet in 1973 with a modest harvest of bait-quality fish along the east side of the Central District and expanded in the late 1970's to include small-scale sac roe fisheries in Chinitna and Tuxedni Bays (Appendix A.9). The total herring harvest has averaged less than 400 tons having an exvessel value below $200,000, one of the smallest herring fisheries in the state. Presently, Upper Cook Inlet herring stocks are generally depressed and harvest levels have declined substantially.

Because the glacial waters of Upper Cook Inlet preclude the use of aerial surveys to estimate biomass of herring stocks, the management approach utilized has necessarily departed from the standard techniques employed in the more traditional herring fisheries. Present management policy allows for modest changes in harvest levels on a yearly basis, monitoring catches for shifts in age composition, and establishing harvest levels that appear to be sustainable. Gillnets are the only legal gear for herring in Upper Cook Inlet with set gillnets being used almost exclusively. Harvests are generally concentrated in the Clam Gulch area (bait herring) and in the Snug Harbor and Magnetic Island areas of Tuxedni Bay and near Clam Cove and Camp Point in Chinitna Bay (roe herring).

Razor Clams

The commercial harvest of razor clams from Upper Cook Inlet beaches dates back to 1919. Harvest levels have fluctuated from no fishery for as many as eight consecutive years to production in excess of half a million pounds (live weight) in 1922 (Appendix A.10). The sporadic nature of the fishery has been more a function of limited market opportunities rather than limited availability of the resource.

Razor clams are present in many areas of Cook Inlet with particularly dense concentrations occurring near Polly Creek on the western shore and from Clam Gulch to Ninilchik on the eastern shore. The eastern shoreline has been set aside for sport harvest exclusively since 1959 and all commercial harvests since that time have come from the west shore, principally from the Polly Creek area. A large portion of the Polly Creek beach is approved for the harvest of clams for the human food market. Bait clams may be taken only outside of this approved area. No overall harvest limits are in place for any area. Virtually all of the commercial harvest has come by hand-digging although regulations prior to 1990 allowed the use of mechanical harvesters (dredges) south of Spring Point or within a one mile section of the Polly Creek beach. Numerous attempts to develop feasible dredging operations were largely unsuccessful due to excessive shell breakage or the limited availability of clams in the area open to this gear.

1992 COMMERCIAL SALMON FISHERY

The 1992 commercial harvest of 10.56 million salmon in Upper Cook Inlet is the highest catch on record, edging out the previous record of 10.45 million set in 1987. The harvest was valued at approximately $100 million, the third highest value on record and nearly an seven-fold increase over the previous season.

Throughout the 1992 season, emergency order announcements and fishery updates were provided to radio stations in Homer and the Kenai-Soldotna area and were provided to processors, fishermen's organizations and other agencies via electronic facsimile. Emergency orders and daily escapement information were also made available through 24-hour recorded message telephone lines.

Since Cook Inlet had not been on the previous year's Board of Fisheries agenda, no new regulatory changes took effect in 1992.

Sockeye Salmon

The 1992 sockeye salmon harvest of 9.1 million was the second highest harvest on record, exceeded only by the 1987 harvest of 9.5 million and was more than four times the average annual catch. Valued at $96 million, the sockeye salmon harvest comprised 96% of the value of the total commercial salmon fishery. The distribution of the catch between drift gear (67%) and setnet gear (33%) differed slightly from the long-term average (60% drift).

Management of the Upper Cook Inlet sockeye salmon fishery integrates information received from a variety of programs which together provide an in-season model of the actual return. These programs include offshore test fishing, escapement enumeration by sonar and weir, comparative analysis of historic commercial harvest and effort levels, and age composition studies.

The offshore test fishing program employs a chartered gillnet vessel fishing standardized stations along a transect crossing Cook Inlet from Anchor Point to the Red River delta. The program provides an in-season estimation of sockeye salmon run-strength by determining fish passage rates (computed by correlating the vessel's daily catch with subsequent commercial harvests and escapement) and fitting these rates to the appropriate historic run-timing profile (Table 1). In 1992, the program was conducted aboard the F/V *Corrina Kay*.

Hydroacoustic devices to quantify salmon escapement into glacial rivers were first employed in Upper Cook Inlet in the Kenai and Kasilof Rivers in 1968 and expanded to the Susitna River in 1978 and the Crescent River in 1979 (Appendix A.11). Operations followed standard procedures in all systems in 1992 and no unusual problems were observed (Table 2). As in the past seven years, the Susitna River escapement was monitored by sonar in only the Yentna River tributary due to technical problems with obtaining satisfactory estimates within the mainstem of the Susitna. The Yentna River escapement goal of 100,000 to 150,000 sockeye salmon was established based on the historical proportion of the

total Susitna River escapement utilizing this tributary. Weirs placed on Fish Creek and Packers Creek provided daily escapement counts for those systems.

Upper Cook Inlet commercial catch statistics refined to gear type, area and date are available back to 1966. Availability of these statistics in a computerized database format make them extremely valuable for evaluating in-season fishery performance. The 1992 commercial catch by gear type, area and date can be found in Tables 3 through 7. Total harvest by statistical area and average catch per permit are contained in Tables 8 and 9. A summary of emergency orders can be found in Table 10 and a summary of fishing periods by gear type and area in Table 11.

Inseason determination of the age composition of sockeye salmon entering the principle rivers frequently provides information helpful in estimating the stock contributions in various fisheries. During the 1992 fishery approximately 20,000 sockeye salmon were examined from catch and escapement samples.

The 1992 season began with the May 25 opening of the sockeye salmon fishery near Big River in the Kustatan Subdistrict. A management plan adopted by the Board of Fisheries first opened this fishery in 1989. Difficulties in enforcing closed waters areas during 1989 resulted in a new definition of these areas by emergency order beginning with the 1990 season and also reduced fishing time from three weekly periods to two to compensate for the expected increased effectiveness of the fishery. Following the period on June 8, the 1,000 chinook salmon quota was estimated to be attained and the fishery was closed by emergency order for the remainder of the season. The sockeye salmon harvest of 3,674 fish is the lowest harvest recorded in this fishery and continues a history of catches well below the level anticipated when this fishery was created.

The sockeye salmon return to the Crescent River on the west side of the Central District is sufficiently segregated from the other July sockeye salmon runs to allow management measures to be taken solely within the Western Subdistrict set gillnet fishery. The 1992 return was somewhat improved over the very poor returns of the past few years and no closures of the fishery were required. The Western Subdistrict catch of 23,159 sockeye salmon was a slight improvement over the previous year, although only about half of the long-term average. The Crescent River escapement of 58,000 was within the desired escapement range of 50,000 - 100,000.

The remaining principle stocks of sockeye salmon (Kenai, Kasilof and Susitna Rivers) were expected to provide the bulk of the forecast harvest of 3.6 million fish. Fishermen were informed prior to the season that returns to the Susitna River were expected to be comparatively weak and that unless early season catches indicated otherwise, a regular period scheduled for within the July 10-15 time

frame would likely be closed to drift gillnetting in the offshore areas of the Central District. This time frame was chosen because historically it has produced the highest single-period exploitation rate on Susitna-bound fish.

The drift fishing season began on the regulatory opening date of June 26 with sockeye salmon catches through early July being unremarkable. Initial escapement rates in the Kasilof River were sufficiently high to trigger an opening of the southern Upper Subdistrict setnets three days prior to the scheduled July 3 opening date. The drift harvest on July 6 of over 300,000 sockeye was far above average for the date and significantly changed the outlook for the strength of the return. The age and size of the fish indicated that the dramatic increase in abundance was largely due to incoming Kenai River stocks. The July 10 fishing period produced an even stronger drift harvest of over 500,000 fish, again consisting mainly of Kenai River stocks. Coupled with the offshore test fish indices, these catches indicated the return was far stronger than forecast.

Sequential escapements well in excess of the maximum goal during the period from 1987-1989 strongly correlated with a precipitous decline in juvenile fish production from the Kenai River and at this point in the season it was evident that a fairly aggressive fishing posture would be necessary to hold the Kenai River escapement to reasonable levels. Concurrently, it would be necessary to structure the fishery in such a way as to minimize the impact of an aggressive fishing pattern on stocks bound for the Susitna River in an effort to achieve the best possible escapement for that system. The fishing period on July 13 was allowed to go forward without restriction and again produced a harvest in excess of 500,000. A limited fishing period for the eastside setnets and drifting close to the east beach was opened on July 14 to slow the escapement into the Kenai and Kasilof Rivers and another period on July 15 permitted drifting from Kalgin Island south and opened setnets along the east side and on Kalgin Island. The eastside setnets were permitted to fish almost continuously from July 13 through July 18. Drifting was allowed in the 3-mile eastside corridor on days when no fishing was allowed in the offshore areas. Catches continued to be very strong with the Upper Cook Inlet harvest approaching 4 million fish by July 18.

The same basic pattern of fishing was sustained through Wednesday, July 22. The 3-mile drift corridor was widened to 8 miles on July 22 to further increase the effectiveness of the drift harvest. No fishing was opened on July 23 as the Kenai River sockeye escapement had slowed and the chinook salmon escapement was lagging. Lacking any significant escapement into the Yentna River and no evidence of substantial abundance of sockeye salmon in the Northern District led to the closure of that area for the regular period on July 24 and a restriction of the drift fleet to the 8-mile corridor. Fish moved very strongly onto the eastside beaches during the July 24 fishing period, producing a record 12-hour period harvest of 380,000 fish for the Upper Subdistrict setnets. By July 24,

the projected final spawning escapement of late-run Kenai River chinook salmon dropped below 19,000, triggering fishery restrictions as required by the regulatory management plan. Restriction of the inriver recreational fishery to catch-and-release fishing only was coupled with the closure of the eastside setnet fishery and the 3-mile drift corridor on all but regularly scheduled openings. The drift fishery was allowed to continue within the 3-8 mile corridor through the weekend of July 25 and 26 and the regular period was again closed in the Northern District and the drift fleet limited to the 8-mile corridor. As of Monday, July 27, the chinook salmon projection had climbed above the 19,000 mark and the projected escapement of Kenai River sockeye salmon exceeded the maximum escapement goal of 700,000, relieving the management plan restrictions on the commercial salmon fishery. All areas fished the remaining regular periods without restriction and, in addition, the eastside setnet fishery and drift fishing in the 8-mile or 3-mile corridors were opened daily through August 8.

In response to a strong return of hatchery-produced sockeye salmon to Packers Creek on Kalgin Island, the Kalgin Island setnets were opened continuously from July 31 through August 8, harvesting almost 40,000 sockeye during that period, nearly half of the season's catch for that area. Nearly 13,000 coho salmon were also harvested during the same time interval.

The Knik Arm setnet fishery opened on July 19 and operated on a two-day-per-week schedule through July 26 as provided for in the recently amended Fish Creek Sockeye Salmon Management Plan. This fishery produced a harvest of 12,100 sockeye and 2,600 coho salmon.

The final Kenai River sockeye salmon escapement of 994,760 was well in excess of the desired range of 400,000 to 700,000. The peak day of passage past the sonar counters was July 25 (83,184) and the 50% point was reached on the same date. The Kasilof River escapement of 183,178 was well within the desired range (150,000 - 250,000). The peak daily passage occurred on July 24 and the 50% point reached on July 12. The Yentna River escapement of 66,057 was well below the desired range of 100,000 to 150,000. The peak daily count occurred on July 27 while the 50% point was achieved on July 26. The Crescent River escapement of 58,227 was near the lower end of the desired range (50,000-100,000). The peak day of escapement into the Crescent occurred on July 23 and the 50% point was reached on July 17. The 50,000 fish point escapement goal for Fish Creek was exceeded by 22,108 fish. The peak daily weir count (10,946) occurred on July 15, two days prior to the 50% point. The escapement goal range of 15,000 - 25,000 for Packers Creek was only slightly exceeded with a final count of 30,143. The Cook Inlet Aquaculture Association was permitted to make cost recovery efforts when it became apparent that the 25,000 level would be exceeded and 9,198 sockeye salmon were harvested in this manner. The peak daily weir count on Packers Creek (6,261 on July 30) coincided with the 50% point of the season's total.

Chum Salmon

Chum salmon returning to Upper Cook Inlet are bound principally for the Susitna River with much smaller returns bound for several streams in Knik and Turnagain Arms and along the west side of the Central District. The harvest occurs primarily in the drift fishery (87%), the Northern District setnet fishery (6%) and the Central District west side setnet fishery (6%). The timing of the Susitna River return significantly overlaps the timing of the sockeye salmon returns and as a result, management measures directed at sockeye salmon often influence the chum salmon harvest. The Susitna River chum salmon escapement is not measured and no escapement objectives are defined.

The 1992 harvest of 274,303 chum salmon was slightly less than half the long-term average and accounted for just 1% of the exvessel value of the salmon fishery. The drift fishery restrictions (limiting fishing to the 8-mile corridor from July 21 through July 30) contributed to reducing the exploitation of the return and the resulting Susitna River escapement was subjectively judged to be average to good.

Chum salmon returns to Central District west side streams were also relatively poor and harvests from these areas were well below average. Escapement in the few streams monitored was generally fair to good.

Pink Salmon

Returns to the Susitna and Kenai rivers combine to account for the majority of the pink salmon production in Upper Cook Inlet. Both rivers have abundant returns only in even-numbered years. Susitna pink salmon return first, passing through the Central District during the latter half of July while Kenai-bound pink salmon are most abundant in the Central District in early August. The harvest occurs principally in the drift fishery (38%), the Central District eastside setnet fishery (36%) and the Northern District setnet fishery (22%).

As with the Susitna chum salmon return, the Susitna pink salmon return overlaps the sockeye salmon return to such a large degree that harvest levels are often influenced by management measures directed at sockeye salmon. Specific fishery alterations directed at Susitna River pink salmon are uncommon. Kenai River pink salmon are harvested most heavily in the Central District eastside setnet fishery in early August. Fishing time in this area after August 5 is typically controlled by the relative strength of the pink salmon return. Estimating the escapement of pink salmon has not proven practical in either system and specific

escapement objectives do not exist.

The 1992 pink salmon return produced a harvest of 695,859 fish, well below average for an even-numbered year, and accounted for only 0.4% of the value of the salmon fishery. The Susitna River pink salmon run was damaged by the 1986 flooding. Subsequent returns have been poor but improving although the 1992 return showed little if any improvement over 1990 and generally followed the trend throughout southcentral Alaska of very poor returns. Lack of directed effort to harvest Susitna-bound pink salmon obviated any need for fishery restrictions. The escapement was subjectively judged to be poor.

The Kenai River pink salmon return, as indicated by daily harvest levels in the eastside setnet fishery, was one of the poorest on record. Lack of substantial effort following the sockeye salmon return resulted in an escapement level that appeared to be fair to good.

Coho Salmon

For discussion purposes, it is useful to divide Upper Cook Inlet's diverse coho salmon stocks impacted by the commercial fishery into three broad categories. The first category contains those stocks bound for the Susitna River and other Northern District streams. These migrate through the Central District during the last three weeks of July. The Cook Inlet Salmon Management Plan identifies Susitna River coho salmon as a stock which should experience a minimized commercial interception, to the extent consistent with other goals established within the Plan. While simple in concept, this directive is much more difficult to implement in practice. The management plan identifies a higher priority for the sustained commercial harvest of sockeye, chum and pink salmon stocks, many of which are bound for the same streams at similar times and along similar pathways utilized by Susitna River coho salmon stocks. Consequently, these stocks are normally exploited at fairly significant levels in the commercial drift and the Northern District setnet fisheries. It is occasionally possible to time fishery closures aimed principally at stock conservation of sockeye salmon to take advantage of peaks in abundance of coho salmon but such opportunities arise too infrequently to consistently meet the Plan objectives.

The second category of interest is the early return of coho salmon to the Kenai River which peaks in abundance in early August and is intercepted in both the drift and eastside setnet fisheries. The allocation status is the same as for Susitna coho salmon. Due to the overlap with the Kenai River sockeye salmon return, it is difficult to avoid a substantial interception of this stock in the commercial fishery.

The third stock grouping consists of a diverse collection of coho salmon returns to the numerous streams along the west side of Cook Inlet. Under the management plan, these stocks are managed primarily for commercial uses. Fishing time in the west side setnet fisheries during August is based primarily on the strength of these returns.

The 1992 coho salmon harvest of 468,911 was significantly above average and accounted for 2.3% of the exvessel value of the salmon fishery. Commercial interception of Susitna River coho salmon was measurably reduced by the late July corridor restrictions of the drift fleet and the simultaneous closure of the Northern District setnet fishery. Inriver abundance was not directly measured but appeared to be good to excellent.

The Kenai River early return exhibited good run strength as judged by daily catches in the eastside setnet fishery. Commercial interception of this stock was substantial due to the extended fishing time targeted on Kenai River sockeye salmon. Additional fishing time did not cease until August 8, the approximate midpoint of the early run of coho. The eastside setnet harvest of 57,000 was significantly above average. Freshwater abundance, as indicated by harvest rates in the inriver recreational fishery, was slightly below average.

The west side and late Northern District coho salmon returns were generally average to above average and fishing in these areas was opened for an additional day each week beginning in August 19. Post-season estimates of abundance in the various freshwater systems producing these coho stocks indicate satisfactory escapements with the exception of Knik Arm stocks where abundance was very poor. Future years will require efforts to identify and restrict portions of the commercial and sport fisheries to insure adequate escapement.

Chinook Salmon

The principle stocks of chinook salmon harvested in the commercial fishery are the return to the Susitna River and the late run to the Kenai River. Created by the Board five years ago and conducted under the direction of the Susitna River Chinook Salmon Management Plan, a minor fishery occurs each June for set gillnets in the Northern District. Each participant is allowed one 35-fathom net and a minimum distance of 1200 feet must be maintained between nets (twice the normal distance). Fishing is permitted for 6 hours each Monday in June until the quota of 12,500 chinook has been harvested or the regular season opens on June 25. Harvest levels have approached or reached the quota in most years but early closures have generally not been required.

The 1992 Northern District chinook salmon fishery harvested 3,918 chinook salmon, by far the lowest catch since the inception of the fishery. The principle reason for the reduced harvest was the significantly reduced run-strength of chinook salmon as evidenced by reduced abundance in many rivers and tributaries. Conservation restrictions in many of the sport fisheries were accompanied by emergency order closure of the final scheduled period (June 22) in the commercial fishery.

The other major stock of chinook salmon harvested in the commercial fishery, the late run to the Kenai River, generates the greatest controversy in Upper Cook Inlet, pitting Kenai River recreational anglers against Upper Subdistrict ("eastside") setnetters. An average of over 13,000 chinook salmon were taken annually during the 1980's in the commercial setnet fishery, frequently exceeding the sport fish harvest. Much smaller numbers are taken in the drift gillnet fishery.

The 1992 eastside setnet fish ticket total of 10,718 chinook salmon represents the highest catch since 1989, due in part to the intense fishing directed at large surpluses of Kenai River sockeye salmon. As noted in the "Sockeye Salmon" section, above, the provisions of the Kenai River Late Run Chinook Salmon Management Plan resulted in the restriction of the eastside setnet fishery and the drift fishery along the eastern shore on July 25 and 26.

The harvest was spread fairly evenly over the eastside beach areas with Ninilchik (244-21), Cohoe (244-22) and Kalifonsky (244-30) averaging 20, 20 and 21 chinook salmon per permit holder, respectively, while Salamatof Beach permit holders averaged just 17 fish. A total of 64 chinook salmon were reported as retained for personal use by commercial fishermen, 45 of those coming from the Central District eastside setnet fishery.

Post-Season Perspective

The preseason anticipation of a below-average return to the Susitna River coupled with a modest return to the Kenai River led to the expectation of a similar management strategy as that employed in 1990 and 1991. In those years, reduction in drift gillnet fishing time in offshore areas coupled with a conservative fishing pattern in the Northern District setnet fishery succeeded in producing satisfactory escapements in the Susitna River while intensive fishing along the Central District east side was successful in preventing excessive escapement in the Kenai River.

In 1992, as the results from early drift periods became available, it soon was apparent that the Kenai River return was far stronger than expected and the

anticipated management strategy needed to be significantly altered to prevent severe overescapement in the Kenai. Balancing risks to both systems, the drift effort was increased moderately, severe restrictions were imposed in the Northern District and effort was maximized along the Central District east side. The results bear out the balance of risk imposed - a significant shortfall of escapement in the Susitna and a significant level of excessive escapement in the Kenai. In hindsight, it remains difficult to envision a strategy that would have produced a more satisfactory result.

Price, Average Weight and Participation

In general, prices paid to fishermen for their catch improved substantially from 1991 prices. The price per pound for sockeye salmon rose to $1.60, up 60 cents from the previous year (Appendix A.12). Chinook, coho, pink and chum salmon were sold for $1.50, $0.75, $0.15 and $0.40 per pound, respectively. It should be noted that these averages are generated from inseason grounds prices and do not reflect any post-season adjustments.

As determined from fish ticket calculations, the average weight by species did not differ markedly from prior years. Chinook salmon averaged 24.6 pounds per fish while sockeye, coho, pink and chum salmon averaged 6.6, 6.4, 3.9 and 6.7 pounds, respectively (Appendix A.13).

The Commercial Fisheries Entry Commission issued 583 drift gillnet permits (69.5% to Alaska residents) and 745 set gillnet permits (85.6% to Alaska residents) for the Cook Inlet area in 1992 (Appendix A.14). A total of 30 firms or individuals purchased Upper Cook Inlet fishery products during 1992 (Table 13).

Stock Status and Outlook

In general, Upper Cook Inlet's salmon stocks are in good condition although several problem areas currently exist. Although the Kenai River has recently produced sockeye salmon returns at record levels, monitoring of smolt production indicates this return will decline precipitously over the next several years. Studies presently suggest the sequential large escapements observed in 1987, 1988 and 1989 overtaxed the rearing capability of the system, leading to subsequent failures in fry survival that has carried at least one year beyond the large brood years. It is unknown at this time how long the low level of juvenile production will continue but adult returns in 1994 and 1995 will likely offer little in the way of harvestable surplus. Management actions in that portion of the commercial fishery harvesting significant numbers of Kenai River sockeye

salmon will need to be severely curtailed in those years in order to achieve the best possible escapement. Kasilof River returns, very strong through the early and mid 1980's, appear to have stabilized at somewhat lower levels and returns there are expected to remain at about average levels over the next several years. Susitna River escapements in two of the recent parent years were significantly below desired levels and returns to this system for 1993 will likely be diminished but should recover quickly. Despite very high parent-year escapements, recent production from Crescent River has been poor. The near-term outlook for this system is difficult to project although all recent escapements were in excess of the minimum goal. In summary, Upper Cook Inlet sockeye salmon harvests through the 1990's will likely average less than three million, a significant decline from the 1980's but substantially above the long-term average. For 1993, the expected total return of sockeye salmon is forecast to be 4.0 million and the harvest should equal 2.5 million (Appendix A.15).

Chum salmon production has been relatively poor in recent years, in part due to after-effects of the fall flooding of the Susitna Basin, but likely also due to poor general environmental factors. Chum salmon stocks throughout Kamishak Bay have shown a similar drop in productivity. Lacking quantitative escapement information, it is more difficult to speculate on near-term returns but it is likely that chum salmon returns will be poor to fair over the next four years. The 1993 harvest projection for chum salmon is 350,000.

Susitna River pink salmon have recovered substantially from the 1986 flood but overall marine survival of pink salmon appears to be waning. Although difficult to evaluate with any surety, the 1993 pink salmon return will most likely be below average for an odd-numbered year with the harvest projected to be 25,000.

Upper Cook Inlet's coho salmon stocks generally produced very strong returns throughout most of the 1980's and no downturn in this trend has been observed. Susitna River escapements have been excellent for the last several years and the outlook for this return is very good. Early-run Kenai River coho salmon returns have ranged from average to good in recent years but harvests have been high in both the commercial fishery and in the rapidly growing sport fishery. The condition of this stock will need to be carefully monitored in the coming years. The Upper Cook Inlet commercial harvest for 1993 is projected to be 450,000.

All chinook salmon stocks in Upper Cook Inlet appear to be in generally good condition with the exception of several river systems immediately south and west of the Susitna River. These systems apparently sustained substantial damage during the 1986 flooding and returns will likely be below average for the next several years. The 1993 projected Upper Cook Inlet commercial chinook salmon harvest is 15,000.

1992 COMMERCIAL HERRING FISHERY

Upper Cook Inlet herring stocks appear to be in a generally depressed condition which has resulted in harvests well below harvest guidelines for the last two years. Prior to the 1992 fishing season the Western Subdistrict of the Central District was closed by emergency order in order to protect the Tuxedni Bay area herring stocks. In addition, the Lower Subdistrict of the Central District was closed to protect Tuxedni Bay stocks and also to eliminate the movement of fishing effort to the waters outside of Chinitna Bay, where herring of inferior roe quality were being harvested and subsequently wasted.

Eastside Beach

The fishery on the east side opens by regulation on April 15 however the majority of the fishing effort does not take place until mid May. The first reported harvests in this fishery occurred on May 3. Harvests in this fishery were sporadic with minimal amounts of herring being taken on a daily basis. The majority of the harvest (96%) occurred in the three southern statistical areas of the Upper Subdistrict with only 1.1 tons being harvested in the Salamatof beach area. The total harvest for the entire eastside fishery was 24.7 tons (Appendix A.9). This was much lower than the preseason expectation of 50 tons for this area. A total of 16 permit holders were active in this fishery making 19 landings. The total exvessel value of this fishery is estimated at 12,000 dollars. The harvest was composed of predominately age 6 (20%), age 7 (38%) and age 8 (28%) fish (Table 14).

Chinitna Bay

The fishery in Chinitna Bay generally begins by early May and is over by mid May. In 1992 the first reported harvests did not occur until May 14 when a total of 3.3 tons of herring were harvested. On May 19 an additional 7.2 tons were harvested before all processors and fish buyers abandoned this area. The total reported harvest from this area is 10.4 tons, the lowest reported harvest in this fishery since it's inception in 1978. A total of 10 permit holders were active in this fishery making 10 landings. The total exvessel value of this fishery is estimated at 5,000 dollars. The age composition of the harvest was dominated by age 6, (14%) age 7, (19%) age 8 (26%) and age 9 (23%) fish (Table 15). There were no reports of dumping immature herring as there has been in past years indicating the preseason emergency order closing the outside waters of the Lower Subdistrict was effective.

Post Season Board Action

The Board of Fisheries during the 1992 meeting covering Cook Inlet adopted a department proposal to open Upper Cook Inlet to herring fishing only during periods established by emergency order. It is anticipated that the Upper Cook Inlet Area will not be open for several years in order to allow these herring stocks to rebuild.

COMMERCIAL RAZOR CLAM FISHERY

The commercial razor clam fishery in Upper Cook Inlet dates back to 1919 with sporadic harvests occurring until 1977 when a stable fishery developed that has harvested an average of 250,000 pounds annually. Since 1959 the east side of Cook Inlet south of the Kenai River has been closed to harvesting clams for commercial purposes. The remainder of the Upper Cook Inlet Management Area has no closed season and no overall harvest limits. Currently this fishery occurs primarily on the west side of Cook Inlet between the Crescent River and Redoubt Point. All clams harvested in this area are directed by regulation to be sold for human consumption, except for the small percentage (less than 10%) of broken clams which may be sold for bait. In the remainder of the Upper Cook Inlet Management Area there are no restrictions on the amount of clams that can be sold for bait. The minimum legal size for razor clams is four and one-half inches (114 mm) in shell length.

The 1992 fishery began in late May and the last reported deliveries were made on August 31. The season's harvest of 296,727 pounds was taken primarily from the Polly Creek area (Appendix A.10). A total of 32 diggers made 1,550 landings over the course of the season. Diggers were paid an average of $.48 per pound for their harvest making the total fishery exvessel value $143,000. Tide tables covering the 1992 fishery can be found in Table 17.

SUBSISTENCE AND PERSONAL USE FISHERIES

Prior to the actions taken by the Board of Fish for the 1991 fishing season, the only area open to subsistence fishing in Upper Cook Inlet was the Tyonek Subdistrict on the west side of Cook Inlet in the Northern District.

Under the new regulations promulgated by the Board of Fisheries, the Upper Cook Inlet Subsistence Salmon Management Plan, subsistence fishing would be allowed with 10 fathom set gillnets in most marine water areas of Upper Cook Inlet normally open to commercial set gillnet fishing. In addition setnet fisheries were created in the Knik Arm, as well as dip net fisheries in the mouths of the Kenai and Kasilof Rivers.

The annual bag and possession limits for this fishery were established at twenty-five salmon per permit-holder of which no more than five could be chinook salmon, with an additional ten salmon for each household member of which no more than one could be a chinook salmon. Subsistence periods were scheduled on select Wednesdays and Saturdays from 8:00 a.m. to 8:00 p.m. by regulation.

The legal gear for this fishery consisted of set gillnets and dip nets. The gear specifications in the set gillnet fishery were for a maximum length of 10 fathoms (60 feet) and no more than 45 meshes in depth. Mesh size must be greater than four inches but may not exceed six inches. In the dip net fishery the legal gear consists of "a bag shaped net supported on all sides by a rigid frame. The maximum straight line distance between any two points on the net frame as measured through the net opening may not exceed five feet. The depth of the bag must be at least one half the greatest straight line distance as measured through the net opening. No portion of the bag may be constructed of webbing which exceeds a stretched measurement of 4.5 inches. The frame must be attached to a single rigid handle and be operated by hand."

In addition to allowing subsistence fisheries in most areas of Upper Cook Inlet, this regulation also eliminated the Kasilof and Central and Northern Districts Personal Use Gillnet Fisheries.

Upper Cook Inlet Subsistence Fishery

The 1992 subsistence fishery was the second year of the fishery created in 1991 by the Board of Fisheries. The fishery in 1991 was interrupted by three separate court decisions eliminating the majority of the open periods in the fishery. These legal challenges did not occur during the 1992 season and all thirty-five fishing periods remained open as scheduled. A total of 9,500 permits were issued

for the 1992 season. Approximately 43.2 percent of these permits were returned as required. Harvest statistics were developed only from these returned permits. A total of 1,149 of the returned permits were not used to participate in this fishery. Of the remaining permits, 1,387 were used to dip-net in the Kenai and Kasilof Rivers harvesting 19,826 salmon (Table 18). A total of 1,646 permits were used to set gillnet in the marine waters of Upper Cook Inlet, harvesting 41,697 salmon (Table 18). Seventy-five permits were used to both set gillnet and dip net. The majority of the effort and harvest were from the east side of the Central District and from Knik Arm of the Northern District.

Post Season Board Action

In the 1992 session the Alaska State Legislature passed legislation that allowed the Boards of Fish and Game to establish non-subsistence areas, where subsistence was not a principal part of the social or economic structure of the community. The Board of Fisheries during the 1992 meeting covering Cook Inlet established that most of Upper Cook Inlet was a non-subsistence area and rescinded the Upper Cook Inlet Subsistence Salmon Management Plan thereby eliminating this fishery and reinstating the personal use fisheries at the mouth of the Kasilof River and the Fall Coho Personal Use Fishery.

The Kenaitze Tribal Fishery

This fishery granted to the Kenaitze tribe under a consent preliminary injunction issued in 1989 from the U.S. District Court and the State Superior Court was continued each year to and including 1992. Under the terms of the injunction, the Kenaitze Tribe was issued a single permit allowing the bearer, who must be a tribal member domiciled in Game Management Units 7 or 15 (the Kenai Peninsula), to operate a single 10-fathom set gillnet having a mesh size no greater than 8.5 inches in the Kenai River downstream from a point one-quarter mile above the Warren Ames Bridge and including those marine waters adjacent to the river mouth normally closed to commercial salmon fishing. Fishing was permitted each day on a 24-hour basis from June 1 to September 1 and from September 16 to September 30. Fishing was to cease when a total of 5,000 salmon had been harvested. A total harvest quota of 300 chinook salmon was also in effect after which all chinook would be released alive. A third provision of this permit allowed for a harvest quota of no more than 500 coho salmon taken after September 15.

Fishing occurred primarily in marine waters south of the mouth of the Kenai River and occasionally in an area known as the "Birches", a prominent stand of birch trees on the south bank of the river immediately upstream of the Warren Ames

Bridge. The harvest, as reported by the tribal office, totaled 55 chinook, 2,025 sockeye, 3 pink and 3 coho salmon.

Tyonek Subsistence Salmon Fishery

Created by court order in 1980, this fishery was originally open only to those individuals domiciled in the village of Tyonek. Recent court decisions allow any Alaska resident to participate although very few non-villagers seek permits. Only one permit is allowed per household and each permit holder is allowed a single ten-fathom net having a mesh size no greater than six inches. Fishing periods are open from 4:00 a.m. to 8:00 p.m. each Tuesday, Thursday and Friday from May 15 to June 15 and from 6:00 a.m. to 6:00 p.m. each Saturday after June 15. The 1992 season resulted in a total reported harvest of 872 chinook, 42 sockeye, 34 coho, 5 pink and 12 chum salmon (Miraglia, ADF&G, memorandum). The chinook harvest has declined steadily since 1983 when the harvest peaked at 2,755. Forty-four permits were issued for the early season and fifty-seven permits for the late season (Appendix A.16).

LITERATURE CITED

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Tarbox, K.E. 1993. An estimate of the 1992 total sockeye salmon return to Upper Cook Inlet, Alaska, using a test fishery. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 2A93-20, Anchorage.

Table 1. Offshore sockeye salmon test fishing observations, F/V *Corrina Kay*, 1992.[1]

DATE	NUMBER OF STATIONS	FISHING TIME (min)	CATCH	CUMULATIVE CATCH	INDEX	CUMULATIVE INDEX	MEAN LENGTH (mm)	MEAN WEIGHT (kgs)	WATER TEMP (c)	AIR TEMP (c)	SALINITY (ppm)	BEGINNING WIND VEL	BEGINNING WIND DIR	ENDING WIND VEL	ENDING WIND DIR
7/01	6	211.5	5	5	4.049	4.049	513.	.00	10.6	13.7	29.5	3	N	0	
7/02	5	172.0	9	14	8.460	12.509	529.	.00	10.0	9.8	30.4	10	S	8	SE
7/03	6	213.5	6	20	5.033	17.542	540.	.00	10.8	14.3	30.5	0		0	
7/04	5	180.5	30	50	24.333	41.875	556.	.00	10.2	11.4	30.6	8	SE	4	SW
7/05	6	223.0	47	97	37.450	79.325	552.	.00	10.0	10.2	30.5	6	SE	8	SE
7/06	5	181.5	26	123	21.380	100.705	564.	.00	10.2	10.0	29.6	0		0	
7/07	6	216.5	3	126	2.540	103.245	603.	.00	10.4	12.0	29.3	0		0	
7/08	5	188.5	53	179	38.681	141.926	560.	.00	10.6	10.0	29.6	12	NE	15	NE
7/09	6	226.5	103	282	79.513	221.439	572.	.00	10.3	12.8	29.8	4	NW	0	
7/10	5	189.5	112	394	81.600	303.039	573.	.00	11.1	10.4	28.8	0		6	N
7/11	6	210.5	42	436	32.790	335.829	581.	.00	12.2	12.7	27.8	0		4	SW
7/12	5	194.5	76	512	53.333	389.162	570.	.00	13.0	11.6	27.4	0		8	SE
7/13	6	272.5	388	900	224.160	613.322	571.	.00	12.9	12.3	27.8	12	SE	15	S
7/14	5	198.0	73	973	43.790	657.112	570.	.00	13.4	10.4	27.0	5	SE	4	S
7/15	6	266.5	371	1344	235.970	893.082	575.	.00	10.7	13.0	29.3	0		0	
7/16	5	202.0	87	1431	66.710	959.792	568.	.00	10.4	11.4	29.6	7	SE	7	S
7/17	6	290.0	653	2084	349.590	1309.382	574.	.00	11.2	12.8	27.2	0		6	SW
7/18	5	188.0	53	2137	42.070	1351.452	566.	.00	10.8	11.8	28.6	3	S	0	
7/19	6	247.0	105	2242	63.700	1415.152	558.	.00	10.7	15.0	28.3	0		3	SE
7/20	4	173.0	161	2403	102.700	1517.852	568.	.00	11.0	13.0	28.5	10	SE	25	SE
7/21	6	225.0	67	2470	46.213	1564.065	575.	.00	11.7	10.5	27.3	5	NE	17	N
7/22	3	126.0	66	2536	40.200	1604.265	573.	.00	10.3	10.0	28.3	10	N	25	N
7/23	6	190.5	43	2579	39.929	1644.194	564.	.00	11.0	13.7	27.6	8	N	10	NE
7/24	5	186.5	21	2600	15.833	1660.027	562.	.00	11.0	14.0	27.2	6	NW	6	N
7/25	6	234.0	51	2651	35.092	1695.119	574.	.00	11.6	13.0	26.7	0		10	SW
7/26	5	193.5	101	2752	66.550	1761.669	565.	.00	11.8	13.2	25.9	0		5	NE
7/27	6	231.0	54	2806	37.600	1799.269	556.	.00	12.0	13.3	26.0	0		5	NW
7/28	5	186.0	80	2886	60.520	1859.789	573.	.00	10.8	10.2	27.6	3	NE	15	NW
7/29	6	233.0	145	3031	103.863	1963.652	572.	.00	10.3	11.8	28.0	0		7	NW
7/30	5	184.0	74	3105	57.000	2020.652	572.	.00	10.6	9.8	27.8	0		10	SE

[1] From Tarbox (1993)

Table 2. Sockeye salmon escapement by date and river, 1992.

Date	KENAI RIVER daily	KENAI RIVER cumulative	KASILOF RIVER daily	KASILOF RIVER cumulative	CRESCENT RIVER daily	CRESCENT RIVER cumulative	YENTNA RIVER daily	YENTNA RIVER cumulative	FISH CREEK daily	FISH CREEK cumulative	PACKERS CREEK daily	PACKERS CREEK cumulative
6-15 Mon			707	707								
6-16 Tue			884	1591								
6-17 Wed			1136	2727							10	10
6-18 Thu			1952	4679							0	10
6-19 Fri			1380	6059							60	70
6-20 Sat			2088	8147							30	100
6-21 Sun			2625	10772							87	187
6-22 Mon			3234	14006							56	243
6-23 Tue			3569	17575							10	253
6-24 Wed			4395	21970							0	253
6-25 Thu			3977	25947							86	339
6-26 Fri			5073	31020							44	383
6-27 Sat			7477	38497							15	398
6-28 Sun			6522	45019							1	399
6-29 Mon			7455	52474							0	399
6-30 Tue			6073	58547							335	734
7-01 Wed	2782	2782	2687	61234	2596	2596					94	828
7-02 Thu	2332	5114	2072	63306	1595	4191					30	858
7-03 Fri	2957	8071	4222	67528	1396	5587					95	953
7-04 Sat	2163	10234	994	68522	1074	6661					62	1015
7-05 Sun	1191	11425	3162	71684	1382	8043					57	1072
7-06 Mon	2484	13909	3529	75213	850	8893					93	1165
7-07 Tue	954	14863	969	76182	357	9250	150	150			87	1252
7-08 Wed	1456	16319	1697	77879	791	10041	76	226			32	1284
7-09 Thu	1180	17499	1930	79809	1116	11157	126	352			50	1334
7-10 Fri	2739	20238	2624	82433	1192	12349	118	470	39	39	38	1372
7-11 Sat	1718	21956	1778	84211	1790	14139	83	553	94	133	35	1407
7-12 Sun	20672	42628	10901	95112	2864	17003	110	663	0	133	52	1459
7-13 Mon	67632	110260	11838	106950	2513	19516	136	799	268	401	240	1699
7-14 Tue	64127	174387	2300	109250	2525	22041	286	1085	6579	6980	504	2203
7-15 Wed	26795	201182	1695	110945	2627	24668	387	1472	10946	17926	430	2633
7-16 Thu	15645	216827	1654	112599	2269	26937	870	2342	8499	26425	225	2858
7-17 Fri	11112	227939	2189	114788	2868	29805	1734	4076	10198	36623	396	3254
7-18 Sat	16882	244821	3066	117854	1595	31400	1574	5650	5453	42076	348	3602
7-19 Sun	8403	253224	3657	121511	1974	33374	2246	7896	3585	45661	320	3922
7-20 Mon	29047	282271	7384	128895	2111	35485	1894	9790	5326	50987	948	4870
7-21 Tue	49662	331933	3639	132534	2510	37995	2360	12150	7523	58510	502	5372
7-22 Wed	36142	368075	2750	135284	2802	40797	3016	15166	6552	65062	99	5471
7-23 Thu	31463	399538	5605	140889	4154	44951	4417	19583	1670	66732	320	5791
7-24 Fri	49356	448894	13584	154473	3408	48359	5049	24632	379	67111	64	5855
7-25 Sat	83184	532078	8355	162828	2711	51070	4930	29562	24	67135	597	6452
7-26 Sun	76952	609030	7991	170819	1220	52290	4746	34308	2757	69892	391	6843
7-27 Mon	64922	673952	5346	176165	833	53123	5737	40045	281	70173	968	7811
7-28 Tue	62641	736593	1670	177835	883	54006	4477	44522	53	70226	669	8480
7-29 Wed	57354	793947	1194	179029	1170	55176	3973	48495	91	70317	2734	11214
7-30 Thu	32174	826121	947	179976	703	55879	3964	52459	887	71204	6261	17475
7-31 Fri	12484	838605	1178	181154	859	56738	2066	54525	101	71305	4725	22200
8-01 Sat	10958	849563	948	182102	706	57444	2140	56665	28	71333	1490	23690
8-02 Sun	10097	859660	1076	183178	783	58227	1555	58220	52	71385	354	24044
8-03 Mon	6344	866004					994	59214	95	71483	9	24053
8-04 Tue	6231	872235					917	60131	78	71561	581	24634
8-05 Wed	11435	883670					310	60441	15	71576	206	24840
8-06 Thu	14787	898457					446	60887	44	71620	722	25562
8-07 Fri	12199	910656					475	61362	81	71701	1332	26894
8-08 Sat	14584	925240					821	62183	17	71718	321	27215
8-09 Sun	11569	936809					1647	63830	56	71744	105	27320
8-10 Mon	13626	950435					1168	64998	9	71783	249	27569
8-11 Tue	13588	964023					1059	66057	7	71790	520	28089
8-12 Wed	11866	975889							56	71846	272	28361
8-13 Thu	18871	994760								72108		30143

Table 3. Commercial chinook salmon catch by area and date, Upper Cook Inlet, 1992.

	DRIFT excluding CHINITNA		EASTSIDE SETNET														NORTHERN DISTRICT SETNET			
			SALAMATOF		K-BEACH		COHOE/NINILCHIK		TOTAL		WEST SIDE		KUSTATAN		KALGIN		CHINITNA		WEST SIDE		EAST SIDE	
Date	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
5-25													167	167								
5-29													401	568								
6-01													171	739					800	800	111	111
6-05													194	933						800		111
6-08														933					1,758	2,558	433	544
6-15														933					682	3,240	134	678
6-19											29	29		933						3,240		678
6-22											37	66		933						3,240		678
6-26	27	27									46	112	9	942	18	18	1	1	311	3,551	32	710
6-29	34	61									45	157	1	943	23	41		1	75	3,626	15	725
6-30	9	70			57	57	97	97	154	154		157		943		41		1		3,626		725
7-03	52	122	94	94	168	225	157	254	419	573	25	182	10	953	3	44		1	46	3,672	1	726
7-06	28	150	94	188	139	364	149	403	382	955	16	198	3	956		44		1	25	3,697	6	732
7-10	41	191	28	216	240	604	244	647	512	1,467	9	207	2	958	4	48		1	49	3,746	3	735
7-13	46	237	99	315	316	920	379	1,026	794	2,261	12	219		958	2	50	1	2	14	3,760	2	737
7-14	48	285	175	490	291	1,211	389	1,415	855	3,116		219		958		50		2		3,760		737
7-15	30	315	33	523	99	1,310	122	1,537	254	3,370		219		958	3	53		2		3,760		737
7-16	52	367	101	624	139	1,449	327	1,864	567	3,937		219		958		53		2		3,760		737
7-17	22	389	225	849	179	1,628	231	2,095	635	4,572	16	235	1	959	1	54	1	3	17	3,777	2	739
7-18	31	420	72	921	133	1,761	242	2,337	447	5,019		235		959		54		3		3,777		739
7-19		420		921		1,761		2,337		5,019		235		959		54		3		3,777		739
7-20	29	449	104	1,025	154	1,915	313	2,650	571	5,590	9	244	1	960	2	56		3	9	3,786	1	740
7-21	35	484	97	1,122	231	2,146	227	2,877	555	6,145		244		960		56		3		3,786		740
7-22	22	506	103	1,225	121	2,267	212	3,089	436	6,581		244		960		56		3		3,786		740
7-24	16	522	36	1,261	64	2,331	56	3,145	156	6,737	2	246		960		56		3		3,786		740
7-25	7	529		1,261		2,331		3,145		6,737		246		960		56		3		3,786		740
7-26	4	533		1,261		2,331		3,145		6,737		246		960		56		3		3,786		740
7-27	18	551	92	1,353	141	2,472	128	3,273	361	7,098	3	249	2	962	3	59		3		3,786		740
7-28	15	566	113	1,466	145	2,617	140	3,413	398	7,496		249		962		59		3		3,786		740
7-29	7	573	69	1,535	137	2,754	125	3,538	331	7,827		249		962		59		3		3,786		740
7-30	3	576	84	1,619	101	2,855	100	3,638	285	8,112		249		962		59		3		3,786		740
7-31	8	584	83	1,702	124	2,979	96	3,734	303	8,415	1	250	1	963		59		3	1	3,787		740
8-01	1	585	73	1,775	104	3,083	67	3,801	244	8,659		250		963	1	60		3		3,787		740
8-02	3	588	72	1,847	120	3,203	78	3,879	270	8,929		250		963		60		3		3,787		740
8-03	2	590	57	1,904	180	3,383	93	3,972	330	9,259	2	252		963		60		3	7	3,794		740
8-04	5	595	82	1,986	166	3,549	95	4,067	343	9,602		252		963		60		3		3,794		740
8-05	3	598	80	2,066	95	3,644	91	4,158	266	9,868		252		963	1	61		3		3,794		740
8-06	7	605	67	2,133	97	3,741	89	4,247	253	10,121		252		963	1	62		3		3,794		740
8-07	5	610	83	2,216	73	3,814	58	4,305	214	10,335		252		963	2	64		3	3	3,797	3	743
8-08	1	611	58	2,274	111	3,925	46	4,351	215	10,550		252		963		64		3		3,797		743
8-10	1	612	53	2,327	53	3,978	19	4,370	125	10,675	1	253		963		64		3	5	3,802		743
8-14	3	615	19	2,346	16	3,994	8	4,378	43	10,718		253		963		64		3	1	3,803	1	744
8-17		615		2,346		3,994		4,378		10,718		253		963		64		3	1	3,804		744
8-19		615		2,346		3,994		4,378		10,718		253		963		64		3	2	3,806	1	745
8-21		615		2,346		3,994		4,378		10,718		253		963	1	65		3		3,806		745
8-24		615		2,346		3,994		4,378		10,718		253		963		65		3		3,806		745
8-26		615		2,346		3,994		4,378		10,718		253		963		65		3	1	3,807		745
8-28		615		2,346		3,994		4,378		10,718		253		963		65		3	1	3,808	1	746

Table 4. Commercial sockeye salmon catch by area and date, Upper Cook Inlet, 1992.

	DRIFT excluding CHINITNA		EAST SIDE SET NET																NORTHERN DISTRICT SETNET			
			SALAMATOF		K-BEACH		COHOE/NINILCHIK		TOTAL		WEST SIDE		KUSTATAN		KALGIN		CHINITNA		WEST SIDE		EAST SIDE	
Date	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
5-25													86	86								
5-29													255	341								
6-01													439	780					252	252	155	155
6-05													1,353	2,133						252		155
6-08													1,590	3,723					326	578	821	976
6-15														3,723					866	1,444	597	1,573
6-19											263	263		3,723						1,444		1,573
6-22											509	772		3,723						1,444		1,573
6-26	10,247	10,247									505	1,277	57	3,780	831	831	97	97	111	1,555	234	1,807
6-29	34,786	45,033									1,432	2,709	43	3,823	2,060	2,891	125	222	110	1,665	178	1,985
6-30	1,399	46,432			6,481	6,481	12,746	12,746	19,227	19,227		2,709		3,823		2,891		222		1,665		1,985
7-03	48,333	94,765	1,941	1,941	7,597	14,078	9,692	22,438	19,230	38,457	803	3,512	39	3,862	522	3,413	70	292	199	1,864	340	2,325
7-06	332,236	427,001	2,061	4,002	3,934	18,012	6,348	28,786	12,343	50,800	1,352	4,864	33	3,895	419	3,832	52	344	367	2,231	438	2,763
7-10	520,140	947,141	1,105	5,107	4,249	22,261	11,702	40,488	17,056	67,856	1,677	6,541	64	3,959	869	4,701	70	414	341	2,572	262	3,025
7-13	573,454	1,520,595	85,752	90,859	86,263	108,524	65,792	106,280	237,807	305,663	1,289	7,830	319	4,278	2,469	7,170	73	487	7,995	10,567	2,857	5,882
7-14	59,187	1,579,782	59,616	150,475	32,909	141,433	23,327	129,607	115,852	421,515		7,830		4,278		7,170		487		10,567		5,882
7-15	539,607	2,119,389	12,091	162,566	33,418	174,851	51,393	181,000	96,902	518,417		7,830		4,278	1,197	8,367		487		10,567		5,882
7-16	77,419	2,196,808	51,123	213,689	42,118	216,969	35,613	216,613	128,854	647,271		7,830		4,278		8,367		487		10,567		5,882
7-17	609,669	2,806,477	45,720	259,409	74,653	291,622	92,962	309,575	213,335	860,606	2,871	10,701	463	4,741	2,652	11,019	57	544	10,463	21,030	2,731	8,613
7-18	100,619	2,907,096	50,183	309,592	58,145	349,767	50,238	359,813	158,566	1,019,172		10,701		4,741		11,019		544		21,030		8,613
7-19		2,907,096		309,592		349,767		359,813		1,019,172		10,701		4,741		11,019		544	2,848	23,878		8,613
7-20	641,328	3,548,424	62,035	371,627	72,934	422,701	69,537	429,350	204,506	1,223,678	2,507	13,208	740	5,481	17,704	28,723	78	622	10,350	34,228	1,437	10,050
7-21	196,781	3,745,205	122,257	493,884	80,775	503,476	54,408	483,758	257,440	1,481,118		13,208		5,481		28,723		622	4,081	38,309		10,050
7-22	454,232	4,199,437	65,937	559,821	45,601	549,077	54,143	537,901	165,681	1,646,799		13,208		5,481		28,723		622		38,309		10,050
7-24	327,505	4,526,942	110,210	670,031	171,279	720,356	114,868	652,769	396,357	2,043,156	3,924	17,132	1,821	7,302	7,364	36,087	57	679		38,309		10,050
7-25	207,954	4,734,896		670,031		720,356		652,769		2,043,156		17,132		7,302		36,087		679		38,309		10,050
7-26	217,185	4,952,081		670,031		720,356		652,769		2,043,156		17,132		7,302		36,087		679	3,819	42,128		10,050
7-27	207,582	5,159,663	36,867	706,898	17,406	737,762	8,569	661,338	62,842	2,105,998	1,858	18,990	657	7,959	8,254	44,341		679		42,128		10,050
7-28	193,073	5,352,736	21,742	728,640	13,331	751,093	6,607	667,945	41,680	2,147,678		18,990		7,959		44,341		679		42,128		10,050
7-29	181,319	5,534,055	17,291	745,931	9,018	760,111	5,309	673,254	31,618	2,179,296		18,990		7,959		44,341		679		42,128		10,050
7-30	176,331	5,710,386	49,218	795,149	22,422	782,533	9,309	682,563	80,949	2,260,245		18,990		7,959		44,341		679		42,128		10,050
7-31	144,745	5,855,131	69,413	864,562	29,658	812,191	11,058	693,621	110,129	2,370,374	1,966	20,956	831	8,790	8,699	53,040	12	691	4,668	46,796	864	10,914
8-01	9,437	5,864,568	25,441	890,003	10,006	822,197	3,926	697,547	39,373	2,409,747		20,956		8,790	3,454	56,494		691		46,796		10,914
8-02	27,084	5,891,652	22,467	912,470	23,824	846,021	8,352	705,899	54,643	2,464,390		20,956		8,790	7,183	63,677		691		46,796		10,914
8-03	61,157	5,952,809	16,338	928,808	20,634	866,655	13,456	719,355	50,428	2,514,818	604	21,560	192	8,982	3,734	67,411		691	2,294	49,090	513	11,427
8-04	6,038	5,958,847	22,501	951,309	14,534	881,189	10,925	730,280	47,960	2,562,778		21,560		8,982	4,270	71,681		691		49,090		11,427
8-05	22,716	5,981,563	39,049	990,358	30,313	911,502	22,349	752,629	91,711	2,654,489		21,560		8,982	6,394	78,075		691		49,090		11,427
8-06	29,454	6,011,017	18,007	1,008,365	18,855	930,357	23,476	776,105	60,338	2,714,827		21,560		8,982	3,048	81,123		691		49,090		11,427
8-07	41,139	6,052,156	28,244	1,036,609	16,607	946,964	15,170	791,275	60,021	2,774,848	1,660	23,220	326	9,308	2,929	84,052	22	713	1,897	50,987	1,300	12,727
8-08	4,664	6,056,820	13,882	1,050,491	10,408	957,372	8,887	800,162	33,177	2,808,025		23,220		9,308	1,573	85,625		713		50,987		12,727
8-10	10,586	6,067,406	8,513	1,059,004	2,704	960,076	3,609	803,771	14,826	2,822,851	513	23,733	68	9,376	1,350	86,975	30	743	1,033	52,020	458	13,185
8-14	1,215	6,068,621	11,679	1,070,683	2,564	962,640	982	804,753	15,225	2,838,076	549	24,282	204	9,580	2,651	89,626	1	744	1,011	53,031	1,188	14,373
8-17	678	6,069,299		1,070,683		962,640		804,753		2,838,076	724	25,006	53	9,633	1,364	90,990	2	746	335	53,366	286	14,659
8-19		6,069,299		1,070,683		962,640		804,753		2,838,076	127	25,133		9,633	883	91,873		746	119	53,485	261	14,920
8-21	176	6,069,475		1,070,683		962,640		804,753		2,838,076	293	25,426		9,633	810	92,683	107	853	119	53,604	128	15,048
8-24		6,069,475		1,070,683		962,640		804,753		2,838,076	47	25,473		9,633	204	92,887	2	855	236	53,840	88	15,136
8-26		6,069,475		1,070,683		962,640		804,753		2,838,076	491	25,964	6	9,639	320	93,207		855	178	54,018	130	15,266
8-28		6,069,475		1,070,683		962,640		804,753		2,838,076	441	26,405	1	9,640	228	93,435	70	925	6	54,024	46	15,312
8-31		6,069,475		1,070,683		962,640		804,753		2,838,076	189	26,594		9,640	54	93,489	75	1,000		54,024	43	15,355
9-02		6,069,475		1,070,683		962,640		804,753		2,838,076	307	26,901		9,640		93,489		1,000		54,024	50	15,405
9-04		6,069,475		1,070,683		962,640		804,753		2,838,076	198	27,099		9,640		93,489	2	1,002		54,024	33	15,438
9-07		6,069,475		1,070,683		962,640		804,753		2,838,076		27,099		9,640		93,489		1,002		54,024	14	15,452
9-09		6,069,475		1,070,683		962,640		804,753		2,838,076	1	27,100		9,640		93,489		1,002		54,024	2	15,454
9-11		6,069,475		1,070,683		962,640		804,753		2,838,076	80	27,180		9,640		93,489		1,002		54,024		15,454

Table 5. Commercial coho salmon catch by area and date, Upper Cook Inlet, 1992.

	DRIFT excluding CHINITNA		EAST SIDE SETNET																NORTHERN DISTRICT SETNET			
			SALAMATOF		K-BEACH		COHOE/NINILCHIK		TOTAL		WEST SIDE		KUSTATAN		KALGIN		CHINITNA		WEST SIDE		EAST SIDE	
Date	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
5-25																						
5-29													8	8								
6-01														8								
6-05														8								
6-08													137	145								
6-15														145								
6-19														145								
6-22											36	36		145								
6-26	26	26										36		145							1	1
6-29	196	222										36		145	14	14			10	10	1	2
6-30	2	224			3	3			3	3		36		145		14				10		2
7-03	371	595	9	9	2	5	4	4	15	18	8	44	6	151	9	23			25	35	2	4
7-06	2,264	2,859	69	78	3	8	4	8	76	94	11	55	4	155	6	29			78	113	5	9
7-10	3,963	6,822	47	125	57	65	21	29	125	219	55	110	51	206	151	180	7	7	306	419	15	24
7-13	14,519	21,341	171	296	64	129	86	115	321	540	71	181	105	311	148	328	12	19	2,135	2,554	78	102
7-14	815	22,156	144	440	27	156	36	151	207	747		181		311		328		19		2,554		102
7-15	19,062	41,218	135	575	47	203	46	197	228	975		181		311	245	573		19		2,554		102
7-16	759	41,977	288	863	222	425	32	229	542	1,517		181		311		573		19		2,554		102
7-17	31,015	72,992	540	1,403	195	620	73	302	808	2,325	260	441	545	856	630	1,203	10	29	5,644	8,198	310	412
7-18	990	73,982	415	1,818	131	751	67	369	613	2,938		441		856		1,203		29		8,198		412
7-19		73,982		1,818		751		369		2,938		441		856		1,203		29	341	8,539		412
7-20	19,836	93,818	883	2,701	127	878	108	477	1,118	4,056	243	684	647	1,503	2,425	3,628	26	55	7,015	15,554	330	742
7-21	1,413	95,231	718	3,419	111	989	77	554	906	4,962		684		1,503		3,628		55	463	16,017		742
7-22	12,020	107,251	734	4,153	456	1,445	266	820	1,456	6,418		684		1,503		3,628		55		16,017		742
7-24	10,401	117,652	1,486	5,639	102	1,547	91	911	1,679	8,097	935	1,619	2,507	4,010	1,027	4,655	87	142		16,017		742
7-25	13,700	131,352		5,639		1,547		911		8,097		1,619		4,010		4,655		142		16,017		742
7-26	16,823	148,175		5,639		1,547		911		8,097		1,619		4,010		4,655		142	1,013	17,030		742
7-27	14,191	162,366	900	6,539	176	1,723	265	1,176	1,341	9,438	688	2,307	1,465	5,475	1,264	5,919		142		17,030		742
7-28	13,026	175,392	992	7,531	183	1,906	395	1,571	1,570	11,008		2,307		5,475		5,919		142		17,030		742
7-29	11,810	187,202	318	7,849	124	2,030	383	1,954	825	11,833		2,307		5,475		5,919		142		17,030		742
7-30	17,893	205,095	1,811	9,660	552	2,582	661	2,615	3,024	14,857		2,307		5,475		5,919		142		17,030		742
7-31	17,850	222,945	1,704	11,364	358	2,940	676	3,291	2,738	17,595	1,118	3,425	1,588	7,063	2,920	8,839	94	236	10,977	28,007	473	1,215
8-01	854	223,799	459	11,823	215	3,155	483	3,774	1,157	18,752		3,425		7,063	904	9,743		236		28,007		1,215
8-02	2,292	226,091	1,049	12,872	748	3,903	655	4,429	2,452	21,204		3,425		7,063	1,746	11,489		236		28,007		1,215
8-03	9,268	235,359	1,286	14,158	921	4,824	915	5,344	3,122	24,326	656	4,081	575	7,638	741	12,230		236	6,864	34,871	540	1,755
8-04	433	235,792	809	14,967	840	5,664	996	6,340	2,645	26,971		4,081		7,638	851	13,081		236		34,871		1,755
8-05	1,187	236,979	1,137	16,104	681	6,345	1,658	7,998	3,476	30,447		4,081		7,638	1,829	14,910		236		34,871		1,755
8-06	4,649	241,628	1,499	17,603	1,142	7,487	2,581	10,579	5,222	35,669		4,081		7,638	1,307	16,217		236		34,871		1,755
8-07	10,361	251,989	1,914	19,517	1,067	8,554	2,149	12,728	5,130	40,799	1,510	5,591	1,528	9,166	1,839	18,056	464	700	8,943	43,814	1,866	3,621
8-08	950	252,939	1,364	20,881	1,284	9,838	2,159	14,887	4,807	45,606		5,591		9,166	1,069	19,125		700		43,814		3,621
8-10	4,274	257,213	1,558	22,439	994	10,832	1,836	16,723	4,388	49,994	1,064	6,655	895	10,061	692	19,817	136	836	7,566	51,380	2,127	5,748
8-14	2,809	260,022	4,331	26,770	1,271	12,103	1,482	18,205	7,084	57,078	1,835	8,490	736	10,797	890	20,707	259	1,095	6,100	57,480	2,494	8,242
8-17	3,358	263,380		26,770		12,103		18,205		57,078	1,459	9,949	310	11,107	782	21,489	185	1,280	2,487	59,967	2,799	11,041
8-19	116	263,496		26,770		12,103		18,205		57,078	1,453	11,402		11,107	571	22,060		1,280	3,416	63,383	3,932	14,973
8-21	1,497	264,993		26,770		12,103		18,205		57,078	1,314	12,716		11,107	388	22,448	1,625	2,905	1,138	64,521	1,114	16,087
8-24	25	265,018		26,770		12,103		18,205		57,078	101	12,817		11,107	24	22,472	646	3,551	1,168	65,689	727	16,814
8-26	402	265,420		26,770		12,103		18,205		57,078	803	13,620	32	11,139	440	22,912		3,551	934	66,623	2,498	19,312
8-28		265,420		26,770		12,103		18,205		57,078	818	14,438	27	11,166	194	23,106	739	4,290	442	67,065	1,220	20,532
8-31		265,420		26,770		12,103		18,205		57,078	314	14,752		11,166	21	23,127	399	4,689	203	67,268	585	21,117
9-02		265,420		26,770		12,103		18,205		57,078	320	15,072		11,166		23,127		4,689	280	67,548	770	21,887
9-04		265,420		26,770		12,103		18,205		57,078	322	15,394		11,166		23,127	243	4,932	368	67,916	820	22,707
9-07		265,420		26,770		12,103		18,205		57,078	374	15,768		11,166		23,127		4,932	197	68,113	213	22,920
9-09		265,420		26,770		12,103		18,205		57,078	187	15,955		11,166		23,127		4,932	25	68,138	47	22,967
9-11		265,420		26,770		12,103		18,205		57,078	27	15,982		11,166		23,127		4,932	21	68,159		22,967
9-14		265,420		26,770		12,103		18,205		57,078	73	16,055		11,166		23,127		4,932		68,159	7	22,974

Table 6. Commercial pink salmon catch by area and date, Upper Cook Inlet, 1992.

	DRIFT excluding CHINITNA		EAST SIDE SET NET																NORTHERN DISTRICT SETNET			
			SALAMATOF		K-BEACH		COHOE/NINILCHIK		TOTAL		WEST SIDE		KUSTATAN		KALGIN		CHINITNA		WEST SIDE		EAST SIDE	
Date	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
5-25																						
5-29																						
6-01																						
6-05																						
6-08													6	6								
6-15														6								
6-19											1	1		6								
6-22											2	3		6								
6-26	25	25									5	8		6	5	5			5	5	3	3
6-29	71	96									5	13		6	3	8	1	1	2	7	1	4
6-30	3	99			2	2	10	10	12	12		13		6		8		1		7		4
7-03	286	385	7	7	13	15	15	25	35	47	12	25		6	2	10	3	4	2	9	6	10
7-06	1,243	1,628	26	33	11	26	16	41	53	100	13	38	2	8	5	15	4	8	9	18	24	34
7-10	2,395	4,023	357	390	69	95	177	218	603	703	17	55		8	25	40	16	24	60	78	150	184
7-13	16,457	20,480	868	1,258	69	164	406	624	1,343	2,046	12	67		8	35	75	5	29	398	476	256	440
7-14	1,320	21,800	764	2,022	85	249	696	1,320	1,545	3,591		67		8		75		29		476		440
7-15	23,137	44,937	407	2,429	83	332	746	2,066	1,236	4,827		67		8	49	124		29		476		440
7-16	1,684	46,621	1,035	3,464	162	494	778	2,844	1,975	6,802		67		8		124		29		476		440
7-17	50,817	97,438	1,461	4,925	170	664	697	3,541	2,328	9,130	31	98	4	12	94	218	4	33	3,897	4,373	2,870	3,310
7-18	3,417	100,855	1,494	6,419	181	845	867	4,408	2,542	11,672		98		12		218		33		4,373		3,310
7-19		100,855		6,419		845		4,408		11,672		98		12		218		33	17	4,390		3,310
7-20	57,093	157,948	1,962	8,381	259	1,104	636	5,044	2,857	14,529	25	123	54	66	1,349	1,567	6	39	5,832	10,222	1,358	4,668
7-21	5,039	162,987	3,705	12,086	238	1,342	623	5,667	4,566	19,095		123		66		1,567		39	47	10,269		4,668
7-22	57,822	220,809	3,351	15,437	89	1,431	1,043	6,710	4,483	23,578		123		66		1,567		39		10,269		4,668
7-24	17,635	238,444	2,681	18,118	199	1,630	631	7,341	3,511	27,089	42	165	9	75	117	1,684	22	61		10,269		4,668
7-25	16,087	254,531		18,118		1,630		7,341		27,089		165		75		1,684		61		10,269		4,668
7-26	27,559	282,090		18,118		1,630		7,341		27,089		165		75		1,684		61	509	10,778		4,668
7-27	22,443	304,533	1,185	19,303	453	2,083	1,316	8,657	2,954	30,043	68	233	14	89	103	1,787		61		10,778		4,668
7-28	19,901	324,434	1,618	20,921	689	2,772	2,547	11,204	4,854	34,897		233		89		1,787		61		10,778		4,668
7-29	10,513	334,947	1,335	22,256	1,200	3,972	2,595	13,799	5,130	40,027		233		89		1,787		61		10,778		4,668
7-30	9,374	344,321	2,327	24,583	1,415	5,387	2,395	16,194	6,137	46,164		233		89		1,787		61		10,778		4,668
7-31	13,214	357,535	3,123	27,706	2,559	7,946	2,605	18,799	8,287	54,451	56	289	14	103	182	1,969	4	65	3,389	14,167	275	4,943
8-01	1,500	359,035	2,834	30,540	2,617	10,563	3,057	21,856	8,508	62,959		289		103	74	2,043		65		14,167		4,943
8-02	3,245	362,280	4,364	34,904	6,595	17,158	2,593	24,449	13,552	76,511		289		103	261	2,304		65		14,167		4,943
8-03	12,010	374,290	5,189	40,093	6,300	23,458	4,267	28,716	15,756	92,267	13	302	6	109	94	2,398		65	1,413	15,580	96	5,039
8-04	1,985	376,275	6,807	46,900	6,130	29,588	5,866	34,582	18,803	111,070		302		109	99	2,497		65		15,580		5,039
8-05	8,103	384,378	7,436	54,336	7,541	37,129	10,217	44,799	25,194	136,264		302		109	189	2,686		65		15,580		5,039
8-06	14,839	399,217	6,430	60,766	6,891	44,020	10,963	55,762	24,284	160,548		302		109	91	2,777		65		15,580		5,039
8-07	11,918	411,135	4,548	65,314	7,109	51,129	7,264	63,026	18,921	179,469	38	340	8	117	55	2,832	10	75	1,097	16,677	378	5,417
8-08	3,168	414,303	3,623	68,937	10,462	61,591	13,061	76,087	27,146	206,615		340		117	53	2,885		75		16,677		5,417
8-10	7,034	421,337	4,730	73,667	5,948	67,539	11,242	87,329	21,920	228,535	47	387	12	129	90	2,975	8	83	339	17,016	160	5,577
8-14	1,730	423,067	9,279	82,946	3,772	71,311	2,482	89,811	15,533	244,068	73	460	7	136	103	3,078	6	89	203	17,219	317	5,894
8-17	614	423,681		82,946		71,311		89,811		244,068	57	517	3	139	127	3,205	5	94	64	17,283	94	5,988
8-19		423,681		82,946		71,311		89,811		244,068	46	563		139	79	3,284		94	85	17,368	205	6,193
8-21	46	423,727		82,946		71,311		89,811		244,068	40	603		139	72	3,356	11	105	11	17,379	67	6,260
8-24	2	423,729		82,946		71,311		89,811		244,068	3	606		139	1	3,357	5	110	32	17,411	24	6,284
8-26	3	423,732		82,946		71,311		89,811		244,068	4	610		139	9	3,366		110	8	17,419	60	6,344
8-28		423,732		82,946		71,311		89,811		244,068	3	613		139	4	3,370	4	114		17,419	15	6,359
8-31		423,732		82,946		71,311		89,811		244,068	1	614		139		3,370		114		17,419	18	6,377
9-02		423,732		82,946		71,311		89,811		244,068	3	617		139		3,370		114		17,419	6	6,383
9-04		423,732		82,946		71,311		89,811		244,068	2	619		139		3,370		114		17,419	2	6,385
9-07		423,732		82,946		71,311		89,811		244,068	5	624		139		3,370		114		17,419	1	6,386
9-09		423,732		82,946		71,311		89,811		244,068	2	626		139		3,370		114		17,419		6,386
9-11		423,732		82,946		71,311		89,811		244,068	2	628		139		3,370		114		17,419		6,386
9-14		423,732		82,946		71,311		89,811		244,068	3	631		139		3,370		114		17,419		6,386

Table 7. Commercial chum salmon catch by area and date, Upper Cook Inlet, 1992.

	DRIFT excluding CHINITNA		EAST SIDE SETNET																NORTHERN DISTRICT SETNET			
			SALAMATOF		K-BEACH		COHOE/MINILCHIK		TOTAL		WEST SIDE		KUSTATAN		KALGIN		CHINITNA		WEST SIDE		EAST SIDE	
Date	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum	Daily	Cum
5-25																						
5-29																						
6-01																						
6-05																						
6-08													2	2							17	17
6-15														2								17
6-19														2								17
6-22											26	26		2								17
6-26	299	299									2	28		2							4	21
6-29	333	632									1	29		2	2	2	1	1	1	1	2	23
6-30	18	650										29		2		2		1		1		23
7-03	2,439	3,089	2	2					2	2		29		2		2	2	3	2	3	3	26
7-06	5,075	8,164	2	4					2	4	4	33		2		2	9	12	15	18	2	28
7-10	4,280	12,444	31	35			23	23	54	58	28	61		2	2	4	31	43	119	137	2	30
7-13	14,933	27,377	11	46	2	2	9	32	22	80	24	85		2	5	9	15	58	331	468	34	64
7-14	679	28,056	10	56	5	7	6	38	21	101		85		2		9		58		468		64
7-15	20,249	48,305	14	70		7	4	42	18	119		85		2	2	11		58		468		64
7-16	461	48,766	19	89	1	8	2	44	22	141		85		2		11		58		468		64
7-17	22,638	71,404	21	110	5	13	6	50	32	173	307	392	1	3	38	49	88	146	1,402	1,870	85	149
7-18	522	71,926	26	136	7	20	1	51	34	207		392		3		49		146		1,870		149
7-19		71,926		136		20		51		207		392		3		49		146	129	1,999		149
7-20	17,659	89,585	141	277	5	25	9	60	155	362	257	649	8	11	853	902	134	280	2,949	4,948	60	209
7-21	935	90,520	84	361	3	28	17	77	104	466		649		11		902		280	251	5,199		209
7-22	16,073	106,593	62	423	2	30	79	156	143	609		649		11		902		280		5,199		209
7-24	4,966	111,559	87	510	2	32	4	160	93	702	811	1,460		11	33	935	163	443		5,199		209
7-25	8,881	120,440		510		32		160		702		1,460		11		935		443		5,199		209
7-26	17,197	137,637		510		32		160		702		1,460		11		935		443	909	6,108		209
7-27	16,852	154,489	40	550		32	16	176	56	758	1,080	2,540	6	17	221	1,156		443		6,108		209
7-28	17,988	172,477	171	721	6	38	16	192	193	951		2,540		17		1,156		443		6,108		209
7-29	10,076	182,553	39	760	3	41	15	207	57	1,008		2,540		17		1,156		443		6,108		209
7-30	10,073	192,626	122	882	10	51	6	213	138	1,146		2,540		17		1,156		443		6,108		209
7-31	11,555	204,181	40	922	8	59	3	216	51	1,197	407	2,947		17	220	1,376	851	1,294	2,952	9,060	46	255
8-01	1,095	205,276	19	941	2	61	1	217	22	1,219		2,947		17	63	1,439		1,294		9,060		255
8-02	2,249	207,525	79	1,020	9	70	6	223	94	1,313		2,947		17	454	1,893		1,294		9,060		255
8-03	8,838	216,363	158	1,178	12	82	19	242	189	1,502	201	3,148	6	23	99	1,992		1,294	2,219	11,279	49	304
8-04	280	216,643	47	1,225	6	88	19	261	72	1,574		3,148		23	200	2,192		1,294		11,279		304
8-05	865	217,508	34	1,259	7	95	17	278	58	1,632		3,148		23	399	2,591		1,294		11,279		304
8-06	4,627	222,135	81	1,340	8	103	76	354	165	1,797		3,148		23	101	2,692		1,294		11,279		304
8-07	4,482	226,617	525	1,865	18	121	62	416	605	2,402	755	3,903	32	55	293	2,985	313	1,607	3,275	14,554	127	431
8-08	875	227,492	123	1,988	37	158	48	464	208	2,610		3,903		55	98	3,083		1,607		14,554		431
8-10	3,931	231,423	121	2,109	13	171	50	514	184	2,794	399	4,302	44	99	170	3,253	419	2,026	2,242	16,796	127	558
8-14	401	231,824	53	2,162	4	175	16	530	73	2,867	720	5,022	25	124	41	3,294	385	2,411	4,487	21,283	105	663
8-17	478	232,302		2,162		175		530		2,867	385	5,407	7	131	92	3,386	507	2,918	1,232	22,515	43	706
8-19	12	232,314		2,162		175		530		2,867	199	5,606		131	126	3,512		2,918	1,152	23,667	28	734
8-21	390	232,704		2,162		175		530		2,867	337	5,943		131	68	3,580	310	3,228	366	24,033	69	803
8-24		232,704		2,162		175		530		2,867	71	6,014		131	5	3,585	169	3,397	136	24,169	64	867
8-26	1	232,705		2,162		175		530		2,867	21	6,035		131	16	3,601		3,397	90	24,259	80	947
8-28		232,705		2,162		175		530		2,867	77	6,112		131	14	3,615	135	3,532	33	24,292	47	994
8-31		232,705		2,162		175		530		2,867	7	6,119		131		3,615	27	3,559		24,292	1	995
9-02		232,705		2,162		175		530		2,867	1	6,120		131		3,615		3,559		24,292	4	999
9-04		232,705		2,162		175		530		2,867		6,120		131		3,615	3	3,562		24,292	10	1,009
9-07		232,705		2,162		175		530		2,867	1	6,121		131		3,615		3,562		24,292		1,009
9-09		232,705		2,162		175		530		2,867		6,121		131		3,615		3,562		24,292		1,009
9-11		232,705		2,162		175		530		2,867		6,121		131		3,615		3,562		24,292		1,009
9-14		232,705		2,162		175		530		2,867	1	6,122		131		3,615		3,562		24,292		1,009

Table 8. Commercial catch by gear, statistical area and species, Upper Cook Inlet, 1992.

Gear	District	Subdistrict	Stat Area	Permits	Chinook	Sockeye	Coho	Pink	Chum	Total
Drift	Central	All	All	581	615	6,069,495	267,300	423,738	232,955	6,994,103
Set Net	Central	Upper	244-21	100	1,996	144,173	7,308	29,941	116	183,534
			244-22	120	2,382	660,580	10,897	59,870	414	734,143
			244-30	186	3,994	962,640	12,103	71,311	175	1,050,223
			244-40	142	2,346	1,070,683	26,770	82,946	2,162	1,184,907
			All	449	10,718	2,838,076	57,078	244,068	2,867	3,152,807
		Kalgin Is.	246-10	22	42	59,332	15,839	2,650	2,877	80,740
			246-20	10	23	34,157	7,288	720	738	42,926
			All	31	65	93,489	23,127	3,370	3,615	123,666
		Chinitna	245-10	4	3	982	3,052	108	3,312	7,457
		Western	245-20	11	10	3,551	5,667	140	359	9,727
			245-30	32	170	14,289	5,777	317	4,763	25,316
			245-40	12	68	8,622	4,375	174	926	14,165
			245-50	6	5	718	236	0	74	1,033
			All	52	253	27,180	16,055	631	6,122	50,241
		Kustatan	245-55	47	938	4,598	5,718	18	11	11,283
			245-60	10	25	5,042	5,448	121	120	10,756
			All	50	963	9,640	11,166	139	131	22,039
		All	All	529	12,002	2,969,367	110,478	248,316	16,047	3,356,210
	Northern	General	247-10	59	1,670	6,037	7,702	932	1,217	17,558
			247-20	32	800	6,837	12,786	1,484	3,150	25,057
			247-30	40	895	15,791	25,847	9,345	12,285	64,163
			247-41	10	233	2,256	3,659	847	1,217	8,212
			247-42	16	19	5,624	6,000	1,624	2,288	15,555
			247-43	10	191	6,731	10,348	2,614	2,846	22,730
			247-50	24	0	10,748	1,817	573	1,289	14,427
			All	146	3,808	54,024	68,159	17,419	24,292	167,702
		Eastern	247-70	26	388	7,728	9,304	3,951	832	22,203
			247-80	12	150	2,956	6,701	1,527	134	11,468
			247-90	14	208	4,770	6,969	908	43	12,898
			All	47	746	15,454	22,974	6,386	1,009	46,569
		All	All	186	4,554	69,478	91,133	23,805	25,301	214,271
	All	All	All	639	16,556	3,038,845	201,611	272,121	41,348	3,570,481
Seine	All	All	All		0	0	0	0	0	0
All	All	All	All	1,220	17,171	9,108,340	468,911	695,859	274,303	10,564,584

Table 9. Commercial salmon catch per permit by statistical area, Upper Cook Inlet, 1992.

Gear	District	Subdistrict	Stat Area	Permits	Chinook	Sockeye	Coho	Pink	Chum	Total
Drift	Central	All	All	581	1	10,447	460	729	401	12,038
Set Net	Central	Upper	244-21	100	20	1,442	73	299	1	1,835
			244-22	120	20	5,505	91	499	3	6,118
			244-30	186	21	5,175	65	383	1	5,646
			244-40	142	17	7,540	189	584	15	8,344
			All	449	24	6,321	127	544	6	7,022
		Kalgin Is.	246-10	22	2	2,697	720	120	131	3,670
			246-20	10	2	3,416	729	72	74	4,293
			All	31	2	3,016	746	109	117	3,989
		Chinitna	245-10	4	1	246	763	27	828	1,864
		Western	245-20	11	1	323	515	13	33	884
			245-30	32	5	447	181	10	149	791
			245-40	12	6	719	365	15	77	1,180
			245-50	6	1	120	39	0	12	172
			All	52	5	523	309	12	118	966
		Kustatan	245-55	47	20	98	122	0	0	240
			245-60	10	3	504	545	12	12	1,076
			All	50	19	193	223	3	3	441
		All	All	529	23	5,613	209	469	30	6,344
	Northern	General	247-10	59	28	102	131	16	21	298
			247-20	32	25	214	400	46	98	783
			247-30	40	22	395	646	234	307	1,604
			247-41	10	23	226	366	85	122	821
			247-42	16	1	352	375	102	143	972
			247-43	10	19	673	1,035	261	285	2,273
			247-50	24	0	448	76	24	54	601
			All	146	26	370	467	119	166	1,149
		Eastern	247-70	26	15	297	358	152	32	854
			247-80	12	13	246	558	127	11	956
			247-90	14	15	341	498	65	3	921
			All	47	16	329	489	136	21	991
		All	All	186	24	374	490	128	136	1,152
	All	All	All	639	26	4,756	316	426	65	5,588
Seine	All	All	All		0	0	0	0	0	0
All	All	All	All	1,220	14	7,466	384	570	225	8,659

Table 10. Commercial fishery emergency orders issued during the 1992 Upper Cook Inlet season.

Emergency Order No.	Effective Date	Action	Reason
2S-01-92	Mar. 19	Closed herring fishing in the Western and Lower Subdistricts for the entire 1992 fishing season.	To protect severely depressed Tuxedni Bay herring stocks.
2S-02-92	May 7	Amended closed waters areas in the Big River fishery and reduced fishing time from three days per week to two.	To provide for more enforceable boundaries and adjust fishery effectiveness.
2S-03-92	May 31	Closed all waters of Upper Cook Inlet to herring fishing at noon, May 31.	Poor and declining catches in remaining open areas.
2S-04-92	June 10	Closed the Big River sockeye salmon fishery.	Chinook salmon quota of 1,000 fish had been reached.
2S-05-92	June 19	Closed the Northern District chinook salmon fishery for the final regular period scheduled for June 22.	Weak returns of chinook salmon in many Northern District streams.
2S-06-92	June 30	Opened set gillnetting in the Upper Subdistrict south of the Blanchard Line and drift gillnetting south of the Blanchard Line within 3 miles of shore on June 30 from 7:00 am to 7:00 pm.	Reduce the rate of sockeye salmon escapement into the Kasilof River.
2S-07-92	July 13	Opened set gillnetting in the Upper Subdistrict from 7:00 pm 7/13 until 10:00 pm 7/14. Opened drift gillnetting in the Upper Subdistrict south of Colliers Dock and within 3 miles of shore on 7/13 from 7:00 pm to 10:00 pm and 7/14 from 5:00 am to 10:00 pm.	Reduce the rate of sockeye salmon escapement into the Kenai and Kasilof Rivers.

Table 10. (Page 2 of 6.)

Emergency Order No.	Effective Date	Action	Reason
2S-08-92	July 15	Opened setnetting in the Upper and Kalgin Island Subdistricts on 7/15 from 7:00 am to 7:00 pm. Opened drift gillnetting south of a line from Colliers Dock to Light Point on Kalgin Island on 7/15 from 7:00 am to 7:00 pm.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof Rivers.
2S-09-92	July 15	Opened setnetting in the Upper Subdistrict from 7:00 pm July 15 until 7:00 am July 17. Opened drift gillnetting south of Colliers Dock and within 3 miles of shore on 7/15 from 7:00 pm to 10:00 pm, on 7/16 from 5:00 am to 10:00 pm and on 7/17 from 5:00 am to 7:00 am.	Reduce the rate of escapement of sockeye salmon into the Kenai and Kasilof Rivers.
2S-10-92	July 17	Opened set gillnetting in the Upper Subdistrict from 7:00 pm 7/17 until 10:00 pm 7/18. Opened drift gillnetting south of Colliers Dock and within 3 miles of shore on 7/17 from 7:00 pm to 10:00 pm and 7/18 from 5:00 am to 10:00 pm.	Reduce the rate of escapement of sockeye salmon in the Kenai and Kasilof Rivers.
2S-11-92	July 20	Opened set gillnetting in the Upper Subdistrict from 7:00 pm 7/20 until 11:00 pm 7/21. Opened drift gillnetting south of Colliers Dock and within 3 miles of shore on 7/20 from 7:00 pm to 10:00 pm and on 7/21 from 5:00 am to 10:00 pm.	Reduce the rate of escapement of sockeye salmon in the Kenai and Kasilof Rivers.

Table 10. (Page 3 of 6.)

Emergency Order No.	Effective Date	Action	Reason
2S-12-92	July 21	Opened set gillnetting in the Upper Subdistrict from 11:00 pm 7/21 until 11:00 pm 7/22. Opened drift gillnetting south of Colliers and within 8 miles of shore on 7/22 from 5:00 am to 10:00 pm.	Reduce the rate of sockeye salmon escapement in the Kenai and Kasilof Rivers.
2S-13-92	July 24	Closed set gillnetting in the Northern District and drifting in the Central District except that portion south of Colliers and within 8 miles of shore for the regular period on 7/24.	Reduce the exploitation rate of sockeye salmon bound for the Susitna River.
2S-14-92	July 25	Opened drifting south of Colliers and from 3 to 8 miles from shore on 7/25 from 5:00 am until 10:00 pm.	Increase the exploitation of sockeye salmon stocks bound for the Kenai and Kasilof Rivers.
2S-15-92	July 26	Opened drifting south of Colliers and from 3-8 miles from shore on 7/26 from 5:00 am to 10:00 pm.	Increase the exploitation of sockeye salmon stocks bound for the Kasilof and Kenai Rivers.
2S-16-92	July 27	Closed set gillnetting in the Northern District and drifting in the Central District except that portion south of Colliers and within 8 miles of shore for the regular period on 7/27.	Reduce the exploitation of sockeye salmon bound for the Susitna River.
2S-17-92	July 27	Opened setnetting in the Upper Subdistrict from 7:00 pm 7/27 until 10:00 P.M. 7/28. Opened drifting south of Colliers Dock within 8 miles of shore from 7:00 pm to 10:00 pm 7/27 and from 5:00 am to 10:00 pm 7/28.	Increase the harvest rate of sockeye salmon returning to the Kasilof River and the Kenai River.

Table 10. (Page 4 of 6.)

Emergency Order No.	Effective Date	Action	Reason
2S-18-92	July 28	Opened setnetting Upper Subdistrict from 10:00 pm 7/28 until 10:00 pm 7/29. Opened driftnetting south of Colliers Dock within 8 miles of shore from on 7/28 from 5:00 am to 10:00 pm.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof Rivers.
2S-19-92	July 29	Opened setnetting in the Upper Subdistrict from 10:00 pm 7/29 until 7:00 am 7/31. Opened drifting south of Colliers Dock and within 8 miles of shore on 7/30 from 6:00 am to 10:00 pm and on 7/31 from 6:00 am to 7:00 am.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof Rivers.
2S-20-92	July 31	Opened setnetting in the Upper and Kalgin Island Subdistricts from 7:00 pm 7/31 until 7:00 am 8/3. Opened drifting south of Colliers Dock and within 8 miles of shore on 7/31 from 7:00 pm to 10:00 pm, on 8/1 from 6:00 am to 10:00 pm, on 8/2 from 6:00 am to 10:00 pm and on 8/3 from 6:00 am to 7:00 am.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof Rivers and Packers Creek.
2S-21-92	Aug. 3	Opened setnetting in the Upper and Kalgin Island Subdistricts from 7:00 pm 8/3 until 11:00 pm 8/4. Opened drifting south of Colliers Dock and within 3 miles of shore on 8/3 from 7:00 pm to 10:00 pm and 8/4 from 6:00 am to 10:00 pm.	Increase the harvest rate of sockeye salmon bound for the Kenai and Kasilof Rivers and Packers Creek.

Table 10. (Page 5 of 6.)

Emergency Order No.	Effective Date	Action	Reason
2S-22-92	Aug. 4	Opened setnetting in the Upper and Kalgin Island Subdistricts from 11:00 pm 8/4 until 11:00 8/5. Opened drifting south of Colliers Dock and within 3 miles of shore on 8/5 from 6:00 am to 10:00 pm.	Increase the exploitation of Kenai and Kasilof River and Packers Creek sockeye salmon.
2S-23-92	Aug.5	Opened set gillnetting in the Upper and Kalgin Island Subdistricts from 11:00 pm 8/5 until 7:00 am 8/7. Opened drifting south of Colliers Dock and within 3 miles of shore on 8/6 from 6:00 am to 10:00 pm and on 8/7 from 6:00 am to 7:00 am.	Increase the exploitation of sockeye salmon bound for the Kenai and Kasilof River and Packers Creek.
2S-24-92	Aug. 7	Opened set gillnetting in the Upper and Kalgin Island Subdistricts from 7:00 pm 8/7 until 10:00 pm 8/8. Opened drifting south of Colliers Dock and within 3 miles of shore on 8/7 from 7:00 pm to 10:00 pm and 8/8 from 6:00 am to 10:00 pm.	Increase the exploitation rate of sockeye salmon bound for the Kenai and Kasilof River and Packers Creek.
2S-25-92	Aug. 19	Opened setnetting in all areas except the Chinitna Bay and Upper Subdistricts and drifting in all areas except the Chinitna Bay Subdistrict or within 5 miles of the eastern shoreline each Wednesday from 7:00 am to 7:00 pm for the remainder of the season.	Generally above-average returns of coho salmon to many Cook Inlet streams.

Table 10. (Page 6 of 6.)

Emergency Order No.	Effective Date	Action	Reason
2S-26-92	Aug. 21	Opened the Chinitna Bay Subdistrict to drifting and seining for all remaining Monday and Friday fishing periods.	Escapement of chum salmon in Chinitna Bay streams had reached desired levels.

Table 11. Commercial salmon fishing periods, Upper Cook Inlet, 1992.

Date	Day	Time	Set Gillnet	Drift Gillnet
May 25	Mon	0700-1900	Big River Area	
May 29	Fri	0700-1900	Big River Area	
June 1	Mon	0700-1300	Northern District, Big River	
		1300-1900	Big River Area	
June 5	Fri	0700-1900	Big River Area	
June 8	Mon	0700-1300	Northern District, Big River	
		1300-1900	Big River Area	
June 15	Mon	0700-1300	Northern District	
June 19	Fri	0700-1900	Western	
June 22	Mon	0700-1900	Western	
June 26	Fri	0700-1900	All except Upper Subdistrict	All
June 29	Mon	0700-1900	All except Upper Subdistrict	All
June 30	Tue	0700-1900	Upper south of mid K-Beach	South of Blanchard Line within 3 mi.
July 3	Fri	0700-1900	All	All
July 6	Mon	0700-1900	All	All
July 10	Fri	0700-1900	All	All
July 13	Mon	0700-1900	All	All
		1900-2200	Upper	Upper s. of Colliers within 3 mi.
		2200-2400	Upper	
July 14	Tue	0000-0500	Upper	
		0500-2200	Upper	Upper s. of Colliers within 3 mi.
July 15	Wed	0700-1900	Upper, Kalgin	S. of Colliers to North Kalgin
		1900-2200	Upper	Upper s. of Colliers within 3 mi.
		2200-2400	Upper	
July 16	Thur	0000-0500	Upper	
		0500-2200	Upper	Upper s. of Colliers within 3 mi.
		2200-2400	Upper	
July 17	Fri	0000-0500	Upper	
		0500-0700	Upper	Upper s. of Colliers within 3 mi.
		0700-1900	All	All
		1900-2200	Upper	Upper s. of Colliers within 3 mi.
		2200-2400	Upper	
July 18	Sat	0000-0500	Upper	
		0500-2200	Upper	Upper s. of Colliers within 3 mi.
July 19	Sun	0700-1900	Knik Arm	

Table 11. (Page 2 of 3).

Date	Day	Time	Set Gillnet	Drift Gillnet
July 20	Mon	0700-1900	All	All
		1900-2200	Upper	Upper s. of Colliers within 3 mi.
		2200-2400	Upper	
July 21	Tues	0000-0500	Upper	
		0500-0700	Upper	Upper s. of Colliers within 3 mi.
		0700-1900	Upper, Knik Arm	Upper s. of Colliers within 3 mi.
		1900-2200	Upper	Upper s. of Colliers within 3 mi.
		2200-2400	Upper	
July 22	Wed	0000-0500	Upper	
		0500-2200	Upper	South of Colliers within 8 mi.
		2200-2300	Upper	
July 24	Fri	0700-1900	All except Northern	South of Colliers within 8 mi.
July 25	Sat	0500-2200		South of Colliers from 3-8 mi.
July 26	Sun	0500-0700		South of Colliers from 3-8 mi.
		0700-1900	Knik Arm	South of Colliers from 3-8 mi.
		1900-2200		South of Colliers from 3-8 mi.
July 27	Mon	0700-1900	All except Northern	South of Colliers within 8 mi.
		1900-2200	Upper	South of Colliers within 8 mi.
		2200-2400	Upper	
July 28	Tue	0000-0500	Upper	
		0500-2200	Upper	South of Colliers within 8 mi.
		2200-2400	Upper	
July 29	Wed	0000-0500	Upper	
		0500-2200	Upper	South of Colliers within 8 mi.
		2200-2400	Upper	
July 30	Thur	0000-0600	Upper	
		0600-2200	Upper	South of Colliers within 8 mi.
		2200-2400	Upper	
July 31	Fri	0000-0600	Upper	
		0600-0700	Upper	South of Colliers within 8 mi.
		0700-1900	All	All except Chinitna
		1900-2200	Upper, Kalgin	South of Colliers within 8 mi.
		2200-2400	Upper, Kalgin	
Aug 1	Sat	0000-0600	Upper, Kalgin	
		0600-2200	Upper, Kalgin	South of Colliers within 8 mi.
		2200-2400	Upper, Kalgin	
Aug 2	Sun	0000-0600	Upper, Kalgin	
		0600-2200	Upper, Kalgin	South of Colliers within 8 mi.
		2200-2400	Upper, Kalgin	
Aug 3	Mon	0000-0600	Upper, Kalgin	
		0600-0700	Upper, Kalgin	South of Colliers within 8 mi.
		0700-1900	All	All except Chinitna
		1900-2200	Upper, Kalgin	Upper s. of Colliers within 3 mi.
		2200-2400	Upper, Kalgin	

Table 11. (Page 3 of 3).

Date	Day	Time	Set Gillnet	Drift Gillnet
Aug 4	Tue	0000-0600	Upper, Kalgin	
		0600-2200	Upper, Kalgin	Upper s. of Colliers within 3 mi.
		2200-2400	Upper, Kalgin	
Aug 5	Wed	0000-0600	Upper, Kalgin	
		0600-2200	Upper, Kalgin	Upper s. of Colliers within 3 mi.
		2200-2400	Upper, Kalgin	
Aug 6	Thur	0000-0600	Upper, Kalgin	
		0600-2200	Upper, Kalgin	South of Colliers within 8 mi.
		2200-2400	Upper, Kalgin	
Aug 7	Fri	0000-0600	Upper, Kalgin	
		0600-0700	Upper, Kalgin	South of Colliers within 8 mi.
		0700-1900	All	All except Chinitna
		1900-2200	Upper, Kalgin	South of Colliers within 8 mi.
		2200-2400	Upper, Kalgin	
Aug 8	Sat	0000-0600	Upper, Kalgin	
		0600-2200	Upper, Kalgin	South of Colliers within 8 mi.
Aug 9	Mon	0700-1900	All	All except Chinitna
Aug 14	Fri	0700-1900	All	All except Chinitna
Aug 17	Mon	0700-1900	All except Upper	All except Chinitna or within 5 miles of Kenai Peninsula
Aug 19	Wed	0700-1900	All except Chinitna or Upper	All except Chinitna or within 5 miles of Kenai Peninsula
Aug 21	Fri	0700-1900	All except Upper	All except w/i 5 mi of Kenai Pen.
Aug 24	Mon	0700-1900	All except Upper	All except w/i 5 mi of Kenai Pen.
Aug 26	Wed	0700-1900	All except Chinitna or Upper	All except Chinitna or within 5 miles of Kenai Peninsula
Aug 28	Fri	0700-1900	All except Upper	All except w/i 5 mi of Kenai Pen.

Fishing continued each Monday, Wednesday and Friday as described for 8/24-8/28 for the remainder of the year.

Table 12. Buyers and processors of Upper Cook Inlet fishery products, 1992.

Buyer/Processor	Plant Site	Contact	Address
Alaska Gourmet F0403-5	Anchorage	Paul Schilling	P.O. Box 190733 Anchorage Ak. 99519
Carlson Seafoods F1232-6	Kasilof	Dorius Carlson	HC2 Box 544 Kasilof Ak. 99610
Cook Inlet Processing F0186-3	Kenai	Pat Hardina	Box 8163 Nikiski Ak. 99635
Cook Inlet Processing F1155-2	Kenai	Pat Hardina	Box 8163 Nikiski Ak. 99635
D & G Enterprises F1070-0	Eagle River	Ken Duffus	P.O. Box 773435 Eagle River Ak. 99577
Deep Creek Custom Packing F1051-5	Ninilchik	Jeff Berger	P.O. Box 39229 Ninilchik Ak. 99639
Dragnet Fisheries F0030-4	Kenai	Mike Mccune	P.O. Box 1260 Kenai Ak. 99615
Ed's Kasilof Seafoods F1505-4	Kasilof	James Trujillo	P.O. Box 18 Kasilof Ak. 99610
Fishhawk Fisheries F1540-1	Kenai	Steve Frick	P.O. Box 715 Astoria Or. 97103
Icicle Seafoods F0133-0	Homer	Thomas King	P.O. Box 79003 Seattle Wa. 98119
Icicle Seafoods F0135-2	Seward	Thomas King	P.O. Box 79003 Seattle Wa. 98119
Icicle Seafoods F1142-1	Homer,Seward	Thomas King	P.O. Box 79003 Seattle Wa. 98119
Inlet Fisheries Inc. F1085-3	Soldotna	Patrick Klier	P.O. Box 530 Kenai Ak. 99611
Inlet Fisheries Inc. F1039-7	Soldotna	Patrick Klier	P.O. Box 530 Kenai Ak. 99611
Int'l Seafoods of Ak. F0021-7	Kodiak	Ted Casten	2360 W. Commodore Seattle Wa. 98199
J.D. Ventures 10788	Wasilla	Jack Schultheis	H.C. 30 Box 5428 Wasilla Ak. 99687
Kachemak Fisheries F1274-0	Homer	Mark Mahan	P.O. Box 676 Homer Ak. 99603
Keener Packing F0394-5	Kasilof	Mike Sawinski	P.O. Box 890 Kenai Ak. 99611
Kenai Custom Seafoods F1182-3	Kenai	James Hill	P.O. Box 1649 Kenai Ak. 99611
Kenai Packers F0361-8	Kenai	Dan Foley	P.O. Box 31179 Seattle Wa. 98103
King Crab Inc. F1452-8	Kodiak	Mike Robison	P.O. Box C-70739 Seattle Wa. 98107
Pacific Alaska Seafoods F0130-7	Nikiski	Jerry Cartee	P.O. Box 7498 Nikiski Ak. 99635

Table 12. (p. 2 of 2)

Buyer/Processor	Plant Site	Contact	Address
Pacific Gold Seafoods F1512-9	Kenai	Corry Potter	1990 Long Leaf Court Santa Rosa Ca. 90000
Phoenix Fisheries Inc. F0597-4	Anchorage	Perry Hendricks	18444 4th Ave.S.W. Seattle Wa. 98166
Prime Alaska Seafoods F1113-8	Anchorage	Jack McLean	6135 Mike St. Anchorage Ak. 99518
R & J Enterprises F0838-6	Anchorage	Juanita Meier	4821 E. 101 St. Anchorage Ak. 99516
Royal Pacific Fisheries F0409-1	Kenai	Marvin Dragseth	P.O. Box 4609 Kenai Ak. 99611
Salamatof Seafoods F0037-1	Kenai	Wylie Reed	P.O. Box 5070 Kenai Ak. 99615
Samer-I Sea Foods F1168-3	Homer	Homer Ireland	Box 1017 Homer Ak. 99603
Sea Hawk Seafoods F0223-5	Valdez	Lasetta Montgomery	P.O. Box 151 Valdez Ak. 99686
Seasonal Seafoods F0998-7	Kasilof	Baily Wharton	4039 21st Ave. Seattle Wa. 98199
Silvertip Fish 53832	Anchorage	Darrell Renner	P.O. Box 140414 Anchorage Ak. 99514
Snug Harbor Seafoods F1302-5	Kenai	Paul Dale	Box 701 Kenai Ak. 99611
Trans Aqua Int'l F1193-2	Kasilof	Taka Iwasaki	One Union Sq. #2800 Seattle Wa. 981101
Wards Cove Packing F0270-2	Kenai	Ray Landry	P.O. Box C-5030 Seattle Wa. 98105-0030
Whitney Foods F0827-7	Anchorage	Bruce Mitchell	P.O. Box 190429 Anchorage Ak. 99519-0429
10th and M Seafoods F0528-9	Anchorage	Bill Nix	1020 M Street Anchorage Ak. 99501

Table 13. Age, sex, and size composition of herring caught in gillnets, Upper Subdistrict, Upper Cook Inlet, 21-27 May, 1992.

		Sex (No.)						Percent	Weight			Length			Biomass		
	Age	Male	Imm. Female	Ripe Female	Spawned Female	Unknown	Total No.	of Total	Mean (g)	SD	Number Weighed	Mean (mm)	SD	Number Measured	No. Fish X 1000	Tons	Tonnes
	1																
	2																
	3	1	0	0	0	0	1	0.5	73	0.0	1	182	0.0	1	28	2.3	2.1
	4																
	5	0	0	3	2	0	5	2.7	153	38.4	5	222	12.6	5	141	23.8	21.6
	6	11	0	12	13	0	36	19.6	165	16.7	36	233	7.9	36	1014	184.8	167.7
	7	23	0	17	30	0	70	38.0	172	25.0	70	239	7.9	70	1971	374.4	339.7
21-27 May	8	16	0	15	20	0	51	27.7	182	28.6	51	242	7.5	51	1436	288.5	261.7
	9	4	0	2	10	0	16	8.7	189	23.6	16	248	7.1	16	451	94.1	85.4
	10	2	0	0	1	0	3	1.6	195	25.8	3	251	13.1	3	84	18.1	16.4
	11	0	0	0	1	0	1	0.5	208	0.0	1	253	0.0	1	28	6.5	5.9
	12																
	13	1	0	0	0	0	1	0.5	244	0.0	1	244	0.0	1	28	7.6	6.9
	14																
	15																
	16																
Sample Total		58	0	49	77	0	184	100.0	175	27.6	184	239	10.2	184	5182	1000.0	907.2
Sex Composition		31.5	.0	26.6	41.8												
Unaged		17	0	8	11	0	36	19.6	176	29.3	36	241	10.0	36			
Sex Composition		47.2	.0	22.2	30.6												

Table 14. Age, sex, and size composition of herring caught in gillnets, Chinitna Bay, Upper Cook Inlet, 13-19 May, 1992.

		Sex (No.)							Weight			Length			Biomass		
			Imm.	Ripe	Spawned		Total	Percent of	Mean		Number	Mean		Number	No. Fish		
	Age	Male	Female	Female	Female	Unknown	No.	Total	(g)	SD	Weighed	(mm)	SD	Measured	X 1000	Tons	Tonnes
	1																
	2																
	3																
	4	3	0	2	0	0	5	4.3	109	42.6	5	218	17.3	5	190	22.7	20.6
	5	4	0	5	0	0	9	7.8	170	33.3	9	239	14.0	9	341	63.9	58.0
	6	9	0	7	0	0	16	13.8	192	37.9	16	247	10.5	16	607	128.7	116.8
	7	10	0	12	0	0	22	19.0	192	30.7	22	248	8.0	22	834	176.4	160.0
13-19 May	8	14	0	16	0	0	30	25.9	227	37.8	30	260	9.6	30	1138	285.0	258.6
	9	17	0	10	0	0	27	23.3	220	34.9	27	258	8.2	27	1024	247.9	224.9
	10	2	0	0	0	0	2	1.7	242	37.5	2	261	2.8	2	76	20.2	18.3
	11	0	0	3	0	0	3	2.6	267	30.1	3	274	4.0	3	114	33.4	30.3
	12	0	0	2	0	0	2	1.7	259	46.7	2	261	24.0	2	76	21.7	19.6
	13																
	14																
	15																
	16																
Sample Total		59	0	57	0	0	116	100.0	206	45.7	116	252	14.4	116	4400	1000.0	907.2
Sex Composition		50.9	.0	49.1	.0												
Unaged		22	0	21	0	0	43	37.1	209	40.9	42	254	10.7	43			
Sex Composition		51.2	.0	48.8	.0												

Table 15. Seldovia District tide tables, April-September, 1992.

APRIL

HIGH TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Wed	1:22	17.7	1:35	17.7
2	Thur	1:48	18.7	2:09	18.4
3	Fri	2:15	19.5	2:45	18.8
4	Sat	2:44	19.9	3:21	18.7
5	Sun	4:14	20.0	4:59	18.1
6	Mon	4:46	19.7	5:42	17.2
7	Tue	5:23	18.9	6:27	15.9
8	Wed	6:06	17.9	7:24	14.7
9	Thur	6:59	16.6	8:34	13.9
10	Fri	8:12	15.3	9:55	13.9
11	Sat	9:41	14.8	11:09	14.9
12	Sun	11:08	15.2	-----	----
13	Mon	0:09	16.4	12:23	16.4
14	Tue	1:00	18.1	1:23	17.8
15	Wed	1:42	19.6	2:14	18.9
16	Thur	2:21	20.7	2:59	19.6
17	Fri	2:59	21.3	3:43	19.7
18	Sat	3:36	21.2	4:25	19.3
19	Sun	4:12	20.6	5:07	18.4
20	Mon	4:49	19.5	5:50	17.2
21	Tue	5:26	18.1	6:35	15.7
22	Wed	6:03	16.5	7:25	14.3
23	Thur	6:51	14.9	8:23	13.3
24	Fri	7:48	13.5	9:35	12.8
25	Sat	9:00	12.5	10:45	13.1
26	Sun	10:27	12.4	11:40	13.9
27	Mon	11:43	13.0	-----	----
28	Tue	0:22	14.9	12:41	14.1
29	Wed	0:57	16.1	1:27	15.3
30	Thur	1:31	17.3	2:08	16.5

LOW TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Wed	7:24	0.9	7:36	1.0
2	Thur	7:59	-0.4	8:05	0.8
3	Fri	8:31	-1.4	8:37	0.8
4	Sat	9:04	-2.0	9:12	1.2
5	Sun	10:38	-2.2	10:45	1.9
6	Mon	11:17	-1.9	11:43	2.8
7	Tue	11:58	-1.2	-----	----
8	Wed	0:06	3.9	12:48	-0.3
9	Thur	0:59	5.0	1:49	0.8
10	Fri	2:09	5.9	3:05	1.6
11	Sat	3:36	5.8	4:26	1.6
12	Sun	5:03	4.5	5:37	1.0
13	Mon	6:12	2.4	6:36	0.3
14	Tue	7:08	0.1	7:24	-0.4
15	Wed	7:55	-1.9	8:08	-0.7
16	Thur	8:39	-3.4	8:48	-0.6
17	Fri	9:21	-4.1	9:30	-0.1
18	Sat	10:00	-4.1	10:09	0.7
19	Sun	10:39	-3.4	10:49	1.8
20	Mon	11:18	-2.2	11:29	3.1
21	Tue	11:58	-0.7	-----	----
22	Wed	0:11	4.5	12:43	1.0
23	Thur	0:59	5.8	1:33	2.5
24	Fri	1:59	6.8	2:36	3.8
25	Sat	3:18	7.2	3:52	4.5
26	Sun	4:42	6.6	5:03	4.5
27	Mon	5:51	5.3	5:59	4.1
28	Tue	6:38	3.6	6:41	3.6
29	Wed	7:17	1.9	7:19	3.1
30	Thur	7:52	0.2	7:55	2.6

MAY

HIGH TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Fri	2:03	18.4	2:48	17.4
2	Sat	2:35	19.3	3:29	18.0
3	Sun	3:11	19.8	4:07	18.2
4	Mon	3:47	20.0	4:49	18.0
5	Tue	4:28	19.8	5:34	17.4
6	Wed	5:10	19.1	6:24	16.7
7	Thur	6:00	18.0	7:20	16.0
8	Fri	6:59	16.7	8:21	15.5
9	Sat	8:07	15.4	9:27	15.6
10	Sun	9:29	14.6	10:30	16.1
11	Mon	10:52	14.6	11:28	17.0
12	Tue	-----	----	12:07	15.3
13	Wed	0:20	18.1	1:08	16.3
14	Thur	1:07	19.0	2:03	17.2
15	Fri	1:50	19.6	2:48	17.8
16	Sat	2:31	19.9	3:32	18.1
17	Sun	3:09	19.8	4:14	18.0
18	Mon	3:47	19.4	4:53	17.5
19	Tue	4:24	18.6	5:34	16.8
20	Wed	5:04	17.6	6:16	16.0
21	Thur	5:42	16.4	6:59	15.2
22	Fri	6:27	15.1	7:46	14.4
23	Sat	7:19	13.8	8:36	14.0
24	Sun	8:21	12.7	9:29	13.9
25	Mon	9:31	12.1	10:21	14.2
26	Tue	10:47	12.2	11:11	14.9
27	Wed	11:56	12.9	11:56	15.8
28	Thur	-----	----	12:54	14.0
29	Fri	0:38	16.8	1:42	15.2
30	Sat	1:21	17.9	2:28	16.3
31	Sun	2:03	19.0	3:13	17.2

LOW TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Fri	8:28	-1.2	8:33	2.2
2	Sat	9:03	-2.4	9:09	-2.1
3	Sun	9:41	-3.2	9:48	2.1
4	Mon	10:20	-3.5	10:28	2.4
5	Tue	11:02	-3.3	11:13	2.8
6	Wed	11:48	-2.7	----	----
7	Thur	0:03	3.5	12:39	-1.7
8	Fri	0:59	4.1	1:35	-0.5
9	Sat	2:07	4.4	2:42	0.6
10	Sun	3:27	4.0	3:51	1.4
11	Mon	4:45	2.8	5:00	1.7
12	Tue	5:53	1.1	6:01	1.8
13	Wed	6:49	-0.7	6:54	1.7
14	Thur	7:39	-2.1	7:42	1.6
15	Fri	8:22	-3.1	8:27	1.7
16	Sat	9:03	-3.6	9:09	1.9
17	Sun	9:43	-3.5	9:48	2.3
18	Mon	10:21	-3.0	10:29	2.8
19	Tue	10:59	-2.2	11:10	3.5
20	Wed	11:39	-1.0	11:52	4.3
21	Thur	----	----	12:16	0.2
22	Fri	0:37	5.1	12:59	1.5
23	Sat	1:29	5.8	1:46	2.8
24	Sun	2:33	6.0	2:40	3.9
25	Mon	3:42	5.8	3:40	4.6
26	Tue	4:50	4.8	4:43	5.0
27	Wed	5:48	3.5	5:40	5.0
28	Thur	6:38	1.7	6:30	4.6
29	Fri	7:18	0.1	7:18	4.1
30	Sat	8:00	-1.5	8:00	3.5
31	Sun	8:41	-2.9	8:46	2.9

Table 15. (page 2 of 3)

JUNE

HIGH TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Mon	2:45	19.8	3:55	17.9
2	Tue	3:31	20.2	4:41	18.2
3	Wed	4:15	20.2	5:26	18.2
4	Thur	5:04	19.7	6:14	18.0
5	Fri	5:56	18.6	7:03	17.7
6	Sat	6:53	17.2	7:54	17.4
7	Sun	7:58	15.8	8:50	17.1
8	Mon	9:11	14.5	9:48	17.1
9	Tue	10:31	14.0	10:47	17.2
10	Wed	11:48	14.1	11:44	17.5
11	Thur	----	----	12:57	14.8
12	Fri	0:36	17.9	1:55	15.6
13	Sat	1:23	18.2	2:40	16.4
14	Sun	2:09	18.5	3:23	16.9
15	Mon	2:51	18.6	4:02	17.2
16	Tue	3:30	18.6	4:41	17.2
17	Wed	4:09	18.3	5:15	17.1
18	Thur	4:47	17.7	5:51	16.7
19	Fri	5:26	16.9	6:26	16.3
20	Sat	6:05	15.8	7:04	15.8
21	Sun	6:50	14.6	7:41	15.4
22	Mon	7:38	13.4	8:21	15.1
23	Tue	8:39	12.5	9:08	14.9
24	Wed	9:53	11.9	10:01	15.1
25	Thur	11:11	12.1	10:56	15.6
26	Fri	12:22P	13.0	11:53	16.4
27	Sat	----	----	1:21	14.3
28	Sun	0:46	17.6	2:11	15.7
29	Mon	1:39	18.8	2:58	17.1
30	Tue	2:29	20.0	3:40	18.2

LOW TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Mon	9:23	-3.9	9:31	2.4
2	Tue	10:06	-4.5	10:17	2.1
3	Wed	10:50	-4.5	11:05	2.0
4	Thur	11:38	-4.0	11:55	2.2
5	Fri	----	----	12:27	-2.9
6	Sat	0:51	2.4	1:17	-1.4
7	Sun	1:54	2.5	2:13	0.2
8	Mon	3:06	2.3	3:16	1.7
9	Tue	4:20	1.7	4:21	2.9
10	Wed	5:29	0.7	5:27	3.6
11	Thur	6:30	-0.4	6:27	3.8
12	Fri	7:23	-1.4	7:21	3.7
13	Sat	8:08	-2.1	8:08	3.5
14	Sun	8:51	-2.5	8:51	3.3
15	Mon	9:28	-2.6	9:33	3.1
16	Tue	10:04	-2.5	10:12	3.2
17	Wed	10:41	-2.0	10:51	3.3
18	Thur	11:15	-1.3	11:31	3.7
19	Fri	11:50	-0.4	----	----
20	Sat	0:11	4.1	12:27	0.8
21	Sun	0:56	4.5	1:04	2.0
22	Mon	1:46	4.8	1:44	3.4
23	Tue	2:41	4.8	2:33	4.6
24	Wed	3:47	4.5	3:33	5.6
25	Thur	4:53	3.5	4:39	6.1
26	Fri	5:54	2.2	5:45	5.9
27	Sat	6:49	0.5	6:46	5.2
28	Sun	7:39	-1.3	7:39	4.2
29	Mon	8:24	-3.0	8:30	3.1
30	Tue	9:07	-4.3	9:17	2.0

JULY

HIGH TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Wed	3:18	20.8	4:25	19.1
2	Thur	4:07	21.0	5:07	19.6
3	Fri	4:56	20.6	5:50	19.8
4	Sat	5:48	19.6	6:35	19.6
5	Sun	6:43	18.0	7:22	19.0
6	Mon	7:41	16.2	8:10	18.2
7	Tue	8:49	14.6	9:06	17.4
8	Wed	10:08	13.5	10:06	16.8
9	Thur	11:35	13.3	11:11	16.4
10	Fri	----	----	12:54	13.9
11	Sat	0:15	16.6	1:50	14.8
12	Sun	1:10	17.0	2:36	15.7
13	Mon	1:58	17.5	3:11	16.5
14	Tue	2:38	18.0	3:47	17.2
15	Wed	3:16	18.4	4:17	17.6
16	Thur	3:53	18.5	4:49	17.8
17	Fri	4:28	18.3	5:18	17.9
18	Sat	5:04	17.7	5:47	17.7
19	Sun	5:42	16.8	6:19	17.3
20	Mon	6:21	15.7	6:48	16.8
21	Tue	7:04	14.4	7:24	16.2
22	Wed	7:54	13.1	8:05	15.7
23	Thur	9:03	12.1	8:58	15.4
24	Fri	10:29	11.9	10:05	15.4
25	Sat	11:56	12.6	11:19	16.1
26	Sun	----	----	1:03	14.1
27	Mon	0:26	17.4	1:56	15.9
28	Tue	1:26	19.0	2:39	17.7
29	Wed	2:19	20.5	3:21	19.3
30	Thur	3:09	21.5	4:00	20.5
31	Fri	3:56	21.9	4:41	21.3

LOW TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Wed	9:53	-5.1	10:04	1.1
2	Thur	10:36	-5.2	10:53	0.5
3	Fri	11:21	-4.5	11:42	0.3
4	Sat	----	----	12:06	-3.3
5	Sun	0:35	0.4	12:53	-1.5
6	Mon	1:32	0.8	1:44	0.6
7	Tue	2:35	1.3	2:40	2.7
8	Wed	3:48	1.6	3:43	4.4
9	Thur	5:06	1.4	4:58	5.4
10	Fri	6:15	0.8	6:07	5.6
11	Sat	7:13	0.0	7:07	5.2
12	Sun	8:00	-0.7	7:58	4.6
13	Mon	8:40	-1.3	8:40	3.9
14	Tue	9:15	-1.7	9:18	3.3
15	Wed	9:47	-1.8	9:55	2.8
16	Thur	10:19	-1.7	10:32	2.6
17	Fri	10:51	-1.2	11:07	2.6
18	Sat	11:20	-0.4	11:42	2.7
19	Sun	11:51	0.7	----	----
20	Mon	0:21	3.1	12:24	2.0
21	Tue	0:59	3.5	12:58	3.4
22	Wed	1:49	3.9	1:41	4.9
23	Thur	2:47	4.1	2:36	6.1
24	Fri	3:59	3.8	3:49	7.0
25	Sat	5:19	2.7	5:11	6.9
26	Sun	6:25	1.0	6:23	5.9
27	Mon	7:18	-0.9	7:23	4.3
28	Tue	8:06	-2.7	8:14	2.5
29	Wed	8:51	-4.2	9:02	0.8
30	Thur	9:35	-5.0	9:50	-0.6
31	Fri	10:17	-4.9	10:36	-1.4

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AUGUST

HIGH TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Sat	4:44	21.5	5:21	21.5
2	Sun	5:34	20.4	6:03	21.0
3	Mon	6:24	18.7	6:45	20.0
4	Tue	7:20	16.7	7:30	18.7
5	Wed	8:23	14.7	8:21	17.2
6	Thur	9:24	13.3	9:27	15.9
7	Fri	11:22	13.0	10:42	15.2
8	Sat	----	----	12:43	13.7
9	Sun	0:01	15.4	1:40	14.7
10	Mon	1:00	16.1	2:19	15.8
11	Tue	1:47	17.1	2:52	16.8
12	Wed	2:27	17.9	3:19	17.7
13	Thur	3:01	18.6	3:47	18.4
14	Fri	3:35	19.0	4:14	18.9
15	Sat	4:08	19.0	4:40	19.0
16	Sun	4:43	18.6	5:06	18.9
17	Mon	5:18	17.8	6:34	18.5
18	Tue	5:55	16.7	6:03	17.9
19	Wed	6:35	15.3	6:35	17.1
20	Thur	7:24	13.9	7:14	16.3
21	Fri	8:30	12.6	8:10	15.6
22	Sat	10:02	12.2	9:30	15.2
23	Sun	11:37	13.0	10:58	15.8
24	Mon	----	----	12:44	14.7
25	Tue	0:12	17.3	1:31	16.7
26	Wed	1:16	19.1	2:13	18.8
27	Thur	2:08	20.8	2:53	20.6
28	Fri	2:57	21.9	3:31	21.9
29	Sat	3:44	22.3	4:09	22.6
30	Sun	4:30	21.9	4:48	22.5
31	Mon	5:17	20.7	5:26	21.7

LOW TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Sat	10:59	-0.4	11:22	-1.6
2	Sun	11:41	-2.6	----	----
3	Mon	0:11	-1.2	12:26	-0.5
4	Tue	1:04	-0.2	1:12	1.8
5	Wed	2:04	1.0	2:04	4.1
6	Thur	3:14	2.2	3:13	5.9
7	Fri	4:38	2.6	4:36	6.9
8	Sat	6:01	2.3	5:56	6.8
9	Sun	7:02	1.5	7:00	5.9
10	Mon	7:47	0.7	7:47	4.8
11	Tue	8:24	-0.1	8:24	3.7
12	Wed	8:54	-0.6	9:01	2.7
13	Thur	9:22	-0.9	9:34	2.0
14	Fri	9:51	-0.9	10:06	1.4
15	Sat	10:20	-0.5	10:38	1.2
16	Sun	10:49	0.2	11:10	1.3
17	Mon	11:19	1.3	11:46	1.7
18	Tue	11:47	2.6	----	----
19	Wed	0:21	2.2	12:24	4.0
20	Thur	1:06	2.9	1:01	5.4
21	Fri	2:02	3.5	1:57	6.8
22	Sat	3:18	3.8	3:20	7.7
23	Sun	4:48	3.1	4:53	7.3
24	Mon	6:01	1.5	6:12	5.7
25	Tue	7:00	-0.4	7:10	3.5
26	Wed	7:47	-2.1	8:00	1.2
27	Thur	8:30	-3.4	8:47	-0.8
28	Fri	9:11	-3.9	9:33	-2.3
29	Sat	9:52	-3.7	10:15	-3.1
30	Sun	10:33	-2.7	11:00	-3.0
31	Mon	11:15	-1.1	11:46	-2.1

SEPTEMBER

HIGH TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Tue	6:05	19.0	6:06	20.3
2	Wed	6:57	16.9	6:51	18.5
3	Thur	7:57	14.9	7:43	16.6
4	Fri	9:21	13.4	8:50	15.0
5	Sat	10:58	13.1	10:16	14.2
6	Sun	12:22P	13.8	11:45	14.5
7	Mon	----	----	1:15	15.0
8	Tue	0:49	15.5	1:50	16.1
9	Wed	1:31	16.7	2:17	17.2
10	Thur	2:08	17.8	2:45	18.2
11	Fri	2:40	18.6	3:07	19.1
12	Sat	3:15	19.2	3:33	19.7
13	Sun	3:48	19.4	3:59	19.9
14	Mon	4:22	19.1	4:27	19.8
15	Tue	4:56	18.4	4:54	19.4
16	Wed	5:34	17.3	5:23	18.7
17	Thur	6:16	15.9	5:57	17.8
18	Fri	7:06	14.5	6:40	16.7
19	Sat	8:13	13.4	7:43	15.6
20	Sun	9:42	13.1	9:13	15.0
21	Mon	11:11	14.0	10:47	15.6
22	Tue	----	----	12:15	15.8
23	Wed	0:05	17.1	1:02	17.8
24	Thur	1:05	18.9	1:42	19.8
25	Fri	1:58	20.4	2:22	21.5
26	Sat	2:45	21.5	2:59	22.6
27	Sun	3:30	21.9	3:36	23.0
28	Mon	4:15	21.5	4:15	22.7
29	Tue	5:00	20.4	4:54	21.6
30	Wed	5:46	18.8	5:34	20.0

LOW TIDES

Date	Day	A.M. Time	A.M. Feet	P.M. Time	P.M. Feet
1	Tue	11:57	1.0	----	----
2	Wed	0:34	-0.6	12:43	3.2
3	Thur	1:28	1.2	1:33	5.4
4	Fri	2:35	2.9	2:44	7.1
5	Sat	4:08	3.8	4:17	7.8
6	Sun	5:41	3.7	5:48	7.2
7	Mon	6:41	2.9	6:49	6.0
8	Tue	7:23	2.0	7:31	4.6
9	Wed	7:55	1.3	8:06	3.2
10	Thur	8:24	0.8	8:37	1.9
11	Fri	8:52	0.4	9:09	0.9
12	Sat	9:18	0.4	9:38	0.2
13	Sun	9:49	0.7	10:09	-0.1
14	Mon	10:18	1.3	10:41	-0.1
15	Tue	10:50	2.3	11:15	0.3
16	Wed	11:21	3.4	11:52	1.0
17	Thur	11:57	4.7	----	----
18	Fri	0:37	1.8	12:40	6.0
19	Sat	1:33	2.8	1:41	7.2
20	Sun	2:50	3.4	3:06	7.7
21	Mon	4:19	3.1	4:44	6.9
22	Tue	5:37	1.9	6:01	4.8
23	Wed	6:33	0.4	6:57	2.2
24	Thur	7:21	-1.0	7:45	-0.2
25	Fri	8:05	-1.8	8:30	-2.3
26	Sat	8:47	-2.1	9:13	-3.7
27	Sun	9:27	-1.7	9:55	-4.1
28	Mon	10:08	-0.8	10:37	-3.7
29	Tue	10:49	0.7	11:20	-2.5
30	Wed	11:31	2.5	----	----

Table 16. Reported subsistence catch by gear, area and species, Upper Cook Inlet, 1992.[1]

Subdistrict/Gear	Specific Area	Chinook	Sockeye	Coho	Pink	Chum	Total
Central Dip Net							
	Kenai River	158	16,240	1,475	598	74	18,545
	Kasilof River	24	1,230	24	3	0	1,281
	Subtotal	182	17,470	1,499	601	74	19,826
Central Set Net							
Upper	Ninilchik	55	1,277	153	45	1	1,531
	Cohoe	147	4,610	683	88	12	5,540
	Kalifonsky	189	9,541	1,920	273	154	12,077
	Salamatof	72	3,911	1,009	132	24	5,148
Kalgin Island		8	226	24	0	3	261
Kustatan		0	31	36	0	3	70
Western		6	417	157	9	15	604
Chinitna Bay		0	0	0	0	0	0
Subtotal		477	20,013	3,982	547	212	25,231
Northern Set Net							
General		344	3,236	2,182	300	572	6,634
Eastern		4	497	329	16	4	850
Knik Arm		132	5,203	2,328	354	965	8,982
Subtotal		480	8,936	4,839	670	1,541	16,466
Grand Total		**1,139**	**46,419**	**10,320**	**1,818**	**1,827**	**61,523**

[1] Does not include Tyonek subsistence or any personal use fishery harvests.

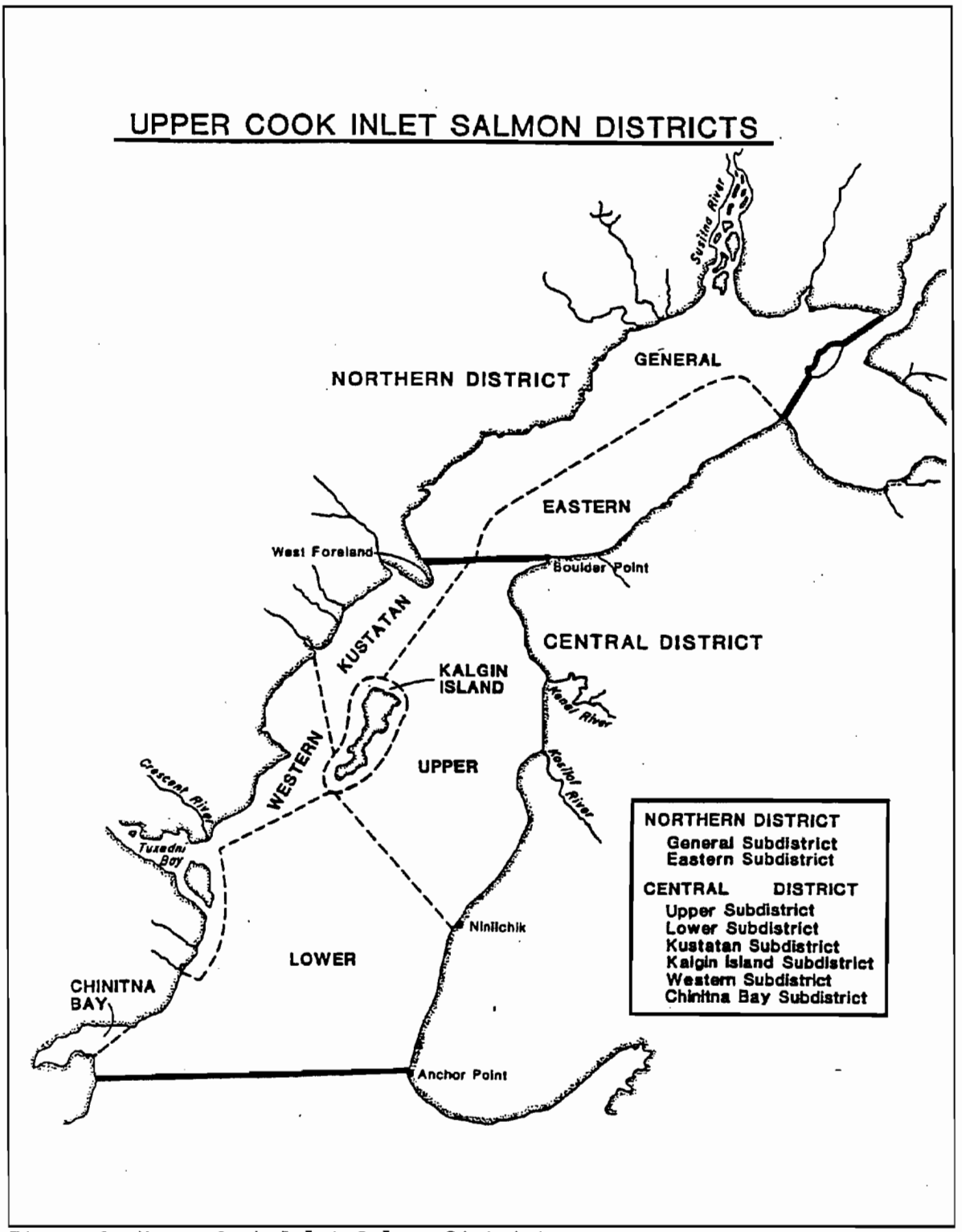

Figure 1. Upper Cook Inlet Salmon Districts

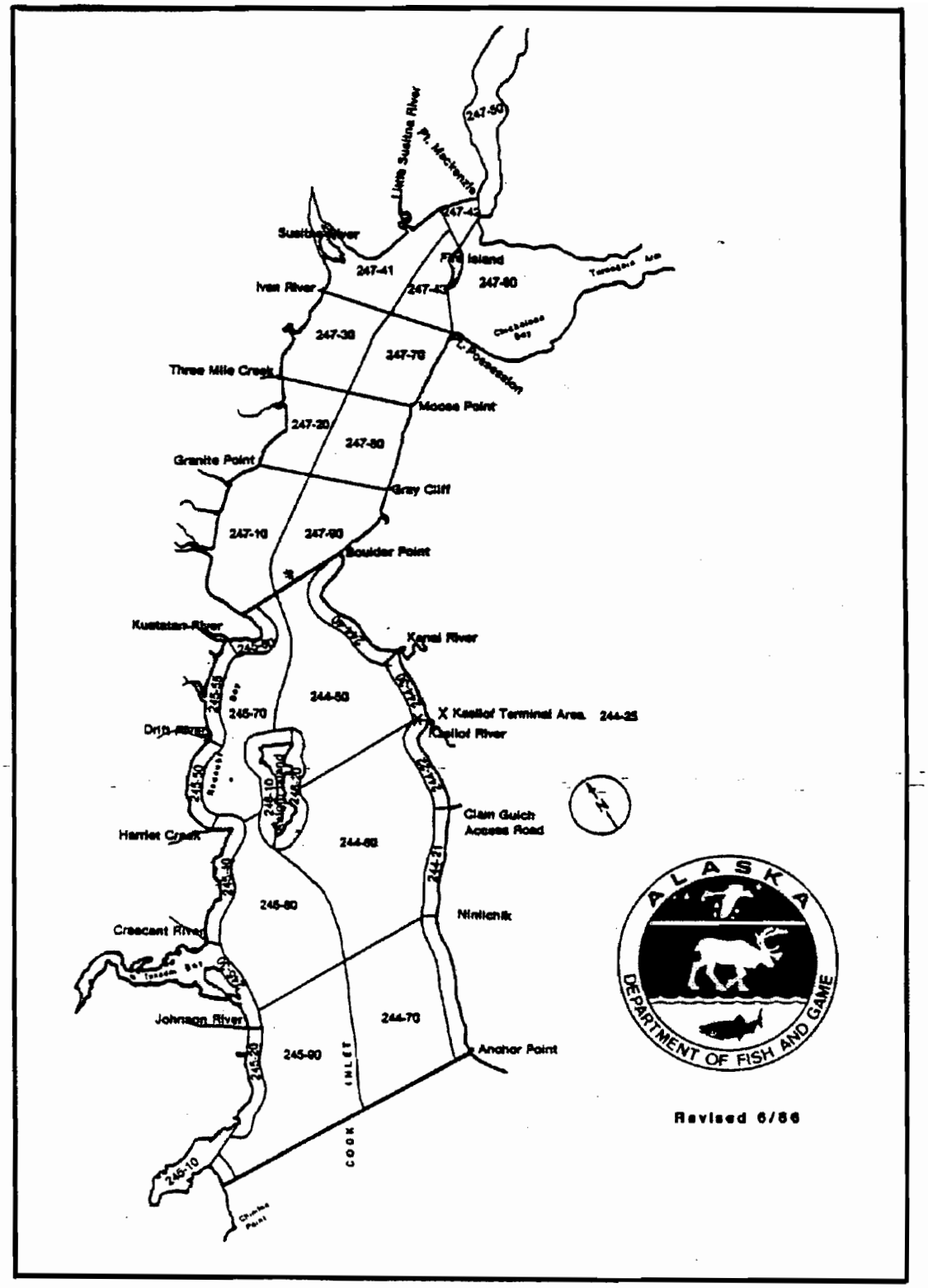

Figure 2. Upper Cook Inlet statistical areas.

Appendix A.1. Upper Cook Inlet commercial chinook salmon harvest by gear type and area, 1966-1992.

Year	Central District Drift Gillnet		Central District Set Gillnet				Northern District Set Gillnet		Total
			East Side		Kalgin/West Side				
	Number	%	Number	%	Number	%	Number	%	
1966	392	4.6	7,329	85.8	401	4.7	422	4.9	8,544
1967	489	6.3	6,646	85.0	500	6.4	184	2.3	7,819
1968	182	4.0	3,304	72.8	579	12.8	471	10.4	4,536
1969	362	2.9	5,834	47.1	3,286	26.6	2,904	23.4	12,386
1970	367	4.4	5,366	64.3	1,152	13.9	1,460	17.5	8,345
1971	237	1.2	7,055	35.7	2,875	14.5	9,598	48.6	19,765
1972	375	2.3	8,599	53.5	2,199	13.7	4,913	30.5	16,086
1973	244	4.7	4,411	84.9	369	7.1	170	3.3	5,194
1974	422	6.4	5,571	84.5	434	6.5	169	2.6	6,596
1975	250	5.2	3,675	76.8	733	15.0	129	2.7	4,787
1976	690	6.4	8,249	75.9	1,469	13.5	457	4.2	10,865
1977	3,411	23.1	9,732	65.8	1,084	7.3	565	3.8	14,792
1978	2,072	12.0	12,468	72.1	2,093	12.1	666	3.9	17,299
1979	1,089	7.9	8,671	63.1	2,264	16.5	1,714	12.5	13,738
1980	889	6.4	9,643	69.9	2,273	16.5	993	7.2	13,798
1981	2,320	19.0	8,358	68.3	837	6.8	725	5.9	12,240
1982	1,293	6.2	13,658	65.4	3,203	15.3	2,716	13.0	20,870
1983	1,125	5.5	15,043	72.9	3,534	17.1	933	4.5	20,635
1984	1,377	13.7	6,165	61.3	1,516	14.9	1,004	10.0	10,062
1985	2,048	8.5	17,723	73.6	2,427	10.1	1,890	7.8	24,088
1986	1,834	4.7	19,810	50.5	2,108	5.4	15,488	39.5	39,240
1987	4,552	11.5	21,379	53.9	1,029	2.6	12,701	32.0	39,661
1988	2,217	7.6	12,870	44.3	1,137	3.9	12,836	44.2	29,060
1989	0	0.0	10,919	40.8	3,092	11.6	12,731	47.6	26,742
1990	621	3.9	4,319	25.7	1,763	10.9	9,582	59.5	16,105
1991	241	1.8	4,891	36.1	1,544	11.4	6,859	50.7	13,535
1992	615	3.6	10,718	62.4	1,284	7.5	4,554	26.5	17,171
Average[1]	1,143	7.2	9,281	63.6	1,619	11.4	3,619	17.8	15,662

[1] 1989 excluded from averages.

Appendix A.2. Upper Cook Inlet commercial sockeye salmon harvest by gear type and area, 1966-1992.

Year	Central District Drift Gillnet		Central District Set Gillnet				Northern District Set Gillnet		Total
			East Side		Kalgin/West Side				
	Number	%	Number	%	Number	%	Number	%	
1966	1,103,261	59.6	485,330	26.2	132,443	7.2	131,080	7.1	1,852,114
1967	890,152	64.6	303,858	22.0	66,414	4.8	118,065	8.6	1,378,489
1968	561,737	50.8	317,535	28.7	85,049	7.7	140,575	12.7	1,104,896
1969	371,747	53.7	210,834	30.5	71,184	10.3	38,050	5.5	691,815
1970	460,690	62.9	142,701	19.5	62,723	8.6	66,458	8.9	732,572
1971	423,107	66.5	111,505	17.5	61,144	9.6	40,533	6.4	636,289
1972	506,281	57.5	204,599	23.3	83,176	9.5	85,755	9.7	879,811
1973	375,695	56.1	188,816	28.2	59,973	8.9	45,614	6.8	670,098
1974	265,771	53.5	136,889	27.5	52,962	10.7	41,563	8.4	497,185
1975	368,124	53.8	177,336	25.9	73,765	10.8	65,526	9.7	684,751
1976	1,055,786	63.4	476,376	28.6	62,338	3.7	69,649	4.2	1,664,149
1977	1,073,098	52.3	751,178	36.6	104,265	5.1	123,780	6.0	2,052,321
1978	1,803,479	68.8	660,797	25.2	105,767	4.0	51,378	2.0	2,621,421
1979	454,707	49.1	248,359	26.8	108,422	11.7	113,918	12.2	925,406
1980	770,247	48.9	559,812	35.6	137,882	8.8	105,647	6.7	1,573,588
1981	633,280	44.0	496,003	34.5	60,217	4.2	249,662	17.3	1,439,262
1982	2,103,429	64.5	971,423	29.8	66,952	2.1	118,060	3.6	3,259,864
1983	3,222,428	63.8	1,508,511	29.9	134,575	2.7	184,219	3.6	5,049,733
1984	1,235,337	58.6	490,273	23.3	162,139	7.7	218,695	10.4	2,106,714
1985	2,032,957	50.1	1,561,200	38.4	285,081	7.0	181,191	4.5	4,060,429
1986	2,834,534	59.2	1,657,904	34.6	153,714	3.2	141,830	3.0	4,787,982
1987	5,631,746	59.3	3,495,802	36.8	208,036	2.2	164,602	1.7	9,500,186
1988	4,129,878	60.4	2,428,597	35.5	146,154	2.1	129,713	1.9	6,834,342
1989	3	0.0	4,543,066	90.7	186,828	3.7	280,801	5.6	5,010,698
1990	2,305,742	64.0	1,116,975	31.0	84,949	2.4	96,398	2.7	3,604,064
1991	1,117,514	51.3	844,156	38.8	99,705	4.6	116,201	5.3	2,177,576
1992	6,069,495	66.6	2,838,076	31.2	131,291	1.4	69,478	0.8	9,108,340
Average[1]	1,607,705	57.8	860,956	29.5	107,705	6.2	111,843	6.5	2,688,208

[1] 1989 excluded from average.

Appendix A.3. Upper Cook Inlet commercial coho salmon harvest by gear type and area, 1966-1992.

Year	Central District Drift Gillnet		Central District Set Gillnet				Northern District Set Gillnet		Total
			East Side		Kalgin/West Side				
	Number	%	Number	%	Number	%	Number	%	
1966	80,901	27.9	68,877	23.8	59,509	20.5	80,550	27.8	289,837
1967	53,071	29.9	40,738	22.9	40,066	22.5	43,854	24.7	177,729
1968	167,383	35.8	80,828	17.3	63,301	13.5	156,648	33.5	468,160
1969	33,053	32.8	18,988	18.8	28,231	28.0	20,425	20.3	100,697
1970	114,070	40.9	30,114	10.8	52,299	18.7	82,722	29.6	279,205
1971	35,491	35.4	16,589	16.5	26,188	26.1	22,094	22.0	100,362
1972	21,577	26.7	24,673	30.5	15,300	18.9	19,346	23.9	80,896
1973	31,784	30.4	23,901	22.9	24,784	23.7	23,951	22.9	104,420
1974	75,640	37.8	36,837	18.4	40,610	20.3	47,038	23.5	200,125
1975	88,579	40.0	46,209	20.8	53,537	24.2	33,051	14.9	221,376
1976	80,712	38.7	47,873	22.9	42,243	20.2	37,835	18.1	208,663
1977	110,184	57.2	23,693	12.3	38,093	19.8	20,623	10.7	192,593
1978	76,259	34.8	34,134	15.6	61,711	28.2	47,089	21.5	219,193
1979	114,496	43.2	29,284	11.2	68,306	25.8	53,078	20.0	265,164
1980	89,510	33.0	40,281	14.8	51,527	19.0	90,098	33.2	271,416
1981	226,366	46.6	36,024	7.4	88,390	18.2	134,625	27.7	485,405
1982	416,274	52.5	108,393	13.7	182,205	23.0	85,352	10.8	792,224
1983	326,965	63.3	37,694	7.3	97,796	18.9	53,867	10.4	516,322
1984	213,423	47.4	37,166	8.3	84,618	18.8	114,786	25.5	449,993
1985	357,388	53.6	70,657	10.6	147,331	22.1	91,837	13.8	667,213
1986	506,405	66.9	76,385	10.1	85,932	11.4	88,108	11.6	756,830
1987	202,306	44.8	74,977	16.6	74,930	16.6	98,920	21.9	451,404
1988	277,703	49.6	55,419	9.9	77,058	13.8	149,742	26.7	560,022
1989	743	0.2	81,744	24.1	81,004	23.9	175,710	51.8	339,201
1990	247,453	49.4	40,351	8.1	73,429	14.7	139,401	27.8	500,634
1991	175,504	41.2	30,435	7.1	87,515	20.6	132,270	31.1	425,724
1992	267,300	57.0	57,078	12.2	53,400	11.4	91,133	19.4	468,911
Average[1]	168,838	43.0	45,677	15.0	66,089	20.0	75,325	22.1	355,943

[1] 1989 excluded from average.

Appendix A.4. Upper Cook Inlet commercial pink salmon harvest by gear type and area, 1966-1992.

Year	Central District Drift Gillnet		Central District Set Gillnet				Northern District Set Gillnet		Total
			East Side		Kalgin/West Side				
	Number	%	Number	%	Number	%	Number	%	
1966	593,654	29.6	969,624	48.3	70,507	3.5	371,960	18.5	2,005,745
1967	7,475	23.2	12,900	40.5	3,256	10.1	8,460	26.4	32,091
1968	880,512	38.7	785,887	34.5	75,755	3.3	534,839	23.5	2,276,993
1969	8,233	25.1	10,968	34.4	5,711	17.2	7,587	23.3	33,499
1970	334,737	41.9	281,067	34.0	24,763	3.0	174,193	21.4	814,760
1971	6,433	18.1	18,097	50.8	2,637	7.4	8,423	23.7	35,590
1972	115,117	18.3	403,706	64.2	18,913	3.0	90,830	14.5	628,566
1973	91,901	28.2	80,596	24.7	16,437	5.0	137,250	42.1	326,184
1974	140,432	29.1	291,408	60.2	9,014	1.9	42,876	8.9	483,730
1975	113,868	33.9	112,423	33.5	19,086	5.5	90,953	27.0	336,330
1976	599,594	47.7	479,024	38.1	30,030	2.4	148,080	11.8	1,256,728
1977	286,308	51.7	125,817	22.7	25,212	4.6	116,518	21.0	553,855
1978	934,442	55.3	372,601	22.1	54,785	3.2	326,614	19.3	1,688,442
1979	19,554	26.8	19,983	27.4	7,061	9.7	26,382	36.1	72,980
1980	964,526	54.0	299,444	16.8	47,963	2.7	474,488	26.6	1,786,421
1981	53,888	42.4	15,654	12.3	4,276	3.4	53,325	41.9	127,143
1982	270,380	34.2	432,715	54.7	14,242	1.8	73,307	9.3	790,644
1983	26,629	37.9	18,309	26.0	3,785	5.4	21,604	30.7	70,327
1984	273,565	44.3	220,895	35.8	16,708	2.7	106,284	17.2	617,452
1985	34,228	39.0	17,715	20.2	5,653	6.4	30,232	34.4	87,828
1986	614,453	47.3	530,445	40.8	15,460	1.2	139,002	10.7	1,299,360
1987	38,660	35.2	47,707	43.4	5,229	4.8	18,205	16.6	109,801
1988	226,776	48.3	179,092	38.1	9,890	2.1	54,210	11.5	469,968
1989	1	0.0	37,971	56.3	5,580	8.3	23,878	35.4	67,430
1990	323,955	53.7	225,429	37.3	10,302	1.7	43,944	7.3	603,630
1991	5,791	39.5	2,670	18.2	1,049	7.2	5,153	35.1	14,663
1992	423,738	60.9	244,068	35.1	4,248	0.6	23,805	3.4	695,859
Average[1]	284,187	38.6	238,394	35.1	19,307	4.6	120,328	21.6	662,215

[1] 1989 excluded from average.

Appendix A.5. Upper Cook Inlet commercial chum salmon harvest by gear type and area, 1966-1992.

Year	Central District Drift Gillnet		Central District Set Gillnet				Northern District Set Gillnet		Total
			East Side		Kalgin/West Side				
	Number	%	Number	%	Number	%	Number	%	
1966	424,972	79.8	7,461	1.4	64,725	12.1	35,598	6.7	532,756
1967	233,041	78.5	399	0.1	25,013	8.4	38,384	12.9	296,837
1968	1,022,900	90.7	1,563	0.1	44,986	4.0	58,454	5.2	1,127,903
1969	238,497	89.1	399	0.1	16,954	6.3	11,836	4.3	267,686
1970	678,448	90.4	1,228	0.2	48,591	6.5	24,507	3.1	750,774
1971	274,567	84.8	128	0.0	32,647	10.1	16,603	5.1	323,945
1972	564,726	90.2	1,727	0.3	40,179	6.4	19,780	3.2	626,412
1973	605,738	90.7	1,965	0.3	29,019	4.3	30,851	4.6	667,573
1974	344,496	86.8	506	0.1	15,346	3.9	36,492	9.2	396,840
1975	886,474	93.2	980	0.1	33,347	3.5	30,787	3.2	951,588
1976	405,769	86.5	1,484	0.3	47,882	10.2	14,045	3.0	469,180
1977	1,153,454	93.5	1,413	0.1	54,708	4.4	23,861	1.9	1,233,436
1978	489,119	85.5	4,563	0.8	40,946	7.2	37,151	6.5	571,779
1979	609,239	93.8	867	0.1	30,342	4.7	9,310	1.4	649,758
1980	339,970	87.7	2,147	0.6	28,970	7.5	16,728	4.3	387,815
1981	756,922	91.0	2,386	0.3	26,461	3.2	46,208	5.6	831,977
1982	1,348,510	94.1	4,777	0.3	36,647	2.6	43,006	3.0	1,432,940
1983	1,044,636	93.7	2,822	0.3	38,079	3.4	29,321	2.6	1,114,858
1984	568,097	83.5	3,695	0.5	34,207	5.0	74,727	11.0	680,726
1985	700,848	90.7	4,133	0.5	31,746	4.1	36,122	4.7	772,849
1986	1,012,028	89.2	7,027	0.6	39,078	3.4	76,040	6.7	1,134,173
1987	211,580	60.6	16,608	4.8	53,558	15.3	67,180	19.3	348,926
1988	580,650	81.9	11,841	1.7	40,354	5.7	75,728	10.7	708,573
1989	72	0.1	12,302	10.1	27,705	22.7	81,948	67.2	122,027
1990	289,521	82.4	4,611	1.3	21,355	6.1	35,710	10.2	351,197
1991	215,469	76.9	2,387	0.9	22,974	8.2	39,393	14.1	280,223
1992	232,955	84.9	2,867	1.0	13,180	4.8	25,301	9.2	274,303
Average[1]	574,735	83.4	3,284	0.6	34,228	6.0	35,208	6.2	647,455

[1] 1989 excluded from average.

Appendix A.6. Upper Cook Inlet commercial salmon harvest by gear type and area, 1966-1992.

Year	Central District Drift Gillnet		Central District Set Gillnet: East Side		Central District Set Gillnet: Kalgin/West Side		Northern District Set Gillnet		Total
	Number	%	Number	%	Number	%	Number	%	
1966	2,203,180	47.0	1,538,621	32.8	327,585	7.0	619,610	13.2	4,688,996
1967	1,184,228	62.6	364,541	19.3	135,249	7.1	208,947	11.0	1,892,965
1968	2,612,714	52.6	1,189,117	24.0	269,670	5.4	890,987	18.0	4,962,488
1969	651,892	59.0	247,023	22.4	125,366	11.3	80,910	7.3	1,105,191
1970	1,584,301	61.4	460,478	17.4	189,528	7.3	349,340	13.5	2,581,647
1971	739,835	66.3	153,374	13.7	125,491	11.2	97,251	8.7	1,115,951
1972	1,208,076	54.1	643,304	28.8	159,767	7.2	220,626	9.9	2,231,773
1973	1,105,362	62.3	299,689	16.9	130,582	7.4	237,836	13.4	1,773,469
1974	826,761	52.2	471,211	29.7	118,366	7.5	168,138	10.6	1,584,476
1975	1,457,295	66.1	340,623	15.5	186,468	8.5	220,446	10.0	2,204,832
1976	2,142,551	59.4	1,013,006	28.1	183,962	5.1	270,066	7.5	3,609,585
1977	2,626,455	64.9	911,831	22.5	223,362	5.5	285,317	7.1	4,046,965
1978	3,305,371	64.6	1,084,563	21.2	265,302	5.2	462,898	9.0	5,118,134
1979	1,199,085	62.3	306,164	16.0	216,395	11.2	204,402	10.6	1,926,046
1980	2,165,142	53.7	911,327	22.6	268,615	6.7	687,954	17.1	4,033,038
1981	1,672,876	57.8	558,425	19.3	180,181	6.2	483,545	16.7	2,895,027
1982	4,139,886	65.7	1,530,966	24.3	303,249	4.8	322,441	5.1	6,296,542
1983	4,621,783	68.2	1,582,378	23.4	277,769	4.1	289,944	4.3	6,771,874
1984	2,291,799	59.3	758,194	19.6	299,188	7.7	515,766	13.3	3,864,947
1985	3,127,469	55.7	1,671,428	29.8	472,238	8.4	341,272	6.1	5,612,407
1986	4,969,254	62.0	2,291,571	28.6	296,292	3.7	460,468	5.7	8,017,585
1987	6,088,844	58.3	3,656,473	35.0	342,782	3.3	361,608	3.5	10,449,707
1988	5,217,224	60.7	2,687,819	31.2	274,593	3.2	422,229	4.9	8,601,865
1989	819	0.0	4,686,002	84.2	304,209	5.5	575,068	10.3	5,566,098
1990	3,167,292	62.6	1,391,505	27.5	174,798	3.5	325,035	6.4	5,058,630
1991	1,514,519	52.0	884,539	30.4	212,787	7.3	299,876	10.3	2,911,721
1992	6,994,103	66.2	3,152,807	29.8	203,403	1.9	214,271	2.0	10,564,584
Average[1]	2,646,819	59.9	1,157,730	24.2	229,346	6.5	347,661	9.4	4,381,556

[1] 1989 figures excluded from average.

Appendix A.7. Upper Cook Inlet commercial salmon harvest by species, 1954-1992.

Year	Chinook	Sockeye	Coho	Pink	Chum	Total
1954	63,780	1,207,046	321,525	2,189,207	510,068	4,291,626
1955	45,926	1,027,528	170,777	101,680	248,343	1,594,254
1956	64,977	1,258,789	198,189	1,595,375	782,051	3,899,381
1957	42,158	643,712	125,434	21,228	1,001,470	1,834,002
1958	22,727	477,392	239,765	1,648,548	471,697	2,860,129
1959	32,651	612,676	106,312	12,527	300,319	1,064,485
1960	27,512	923,314	311,461	1,411,605	659,997	3,333,889
1961	19,737	1,162,303	117,778	34,017	349,628	1,683,463
1962	20,210	1,147,573	350,324	2,711,689	970,582	5,200,378
1963	17,536	942,980	197,140	30,436	387,027	1,575,119
1964	4,531	970,055	452,654	3,231,961	1,079,084	5,738,285
1965	9,741	1,412,350	153,619	23,963	316,444	1,916,117
1966	8,544	1,852,114	289,837	2,005,745	532,756	4,688,996
1967	7,859	1,380,062	177,729	32,229	296,837	1,894,716
1968	4,536	1,104,904	469,850	2,278,197	1,119,114	4,976,601
1969	12,397	692,175	100,777	33,383	269,847	1,108,579
1970	8,336	732,605	275,399	814,895	776,229	2,607,464
1971	19,765	636,303	100,636	35,624	327,029	1,119,357
1972	16,086	879,824	80,933	628,574	630,103	2,235,520
1973	5,194	670,098	104,420	326,184	667,573	1,773,469
1974	6,596	497,185	200,125	483,730	396,840	1,584,476
1975	4,787	684,752	227,379	336,333	951,796	2,205,047
1976	10,865	1,664,150	208,695	1,256,728	469,802	3,610,240
1977	14,790	2,052,291	192,599	553,855	1,233,722	4,047,257
1978	17,299	2,621,421	219,193	1,688,442	571,779	5,118,134
1979	13,738	924,415	265,166	72,982	650,357	1,926,658
1980	13,798	1,573,597	271,418	1,786,430	390,675	4,035,918
1981	12,240	1,439,277	484,411	127,164	833,542	2,896,634
1982	20,870	3,259,864	793,937	790,648	1,433,866	6,299,185
1983	20,634	5,049,733	516,322	70,327	1,114,858	6,771,874
1984	10,062	2,106,714	449,993	617,452	680,726	3,864,947
1985	24,088	4,060,429	667,213	87,828	772,849	5,612,407
1986	39,240	4,787,982	756,830	1,299,360	1,134,173	8,017,585
1987	39,661	9,500,186	451,404	109,801	349,139	10,450,191
1988	29,060	6,834,342	560,022	469,972	708,573	8,601,969
1989	26,742	5,010,698	339,201	67,430	122,027	5,566,098
1990	16,105	3,604,064	500,634	603,630	351,197	5,075,630
1991	13,535	2,177,576	425,724	14,663	280,223	2,911,721
1992	17,171	9,108,340	468,911	695,859	274,303	10,564,584
Average	20,653	2,222,842	316,506	776,915	626,068	3,962,984

Appendix A.8. Approximate exvessel value of the Upper Cook Inlet commercial salmon harvest by species, 1960-1992.

Year	Chinook	%	Sockeye	%	Coho	%	Pink	%	Chum	%	Total
1960	$140,000	5.0	$1,334,000	47.9	$307,000	11.0	$663,000	23.8	$343,000	12.3	$2,787,000
1961	$100,000	4.7	$1,687,000	79.4	$118,000	5.6	$16,000	0.8	$204,000	9.6	$2,125,000
1962	$100,000	2.5	$1,683,000	42.3	$342,000	8.6	$1,274,000	32.0	$582,000	14.6	$3,981,000
1963	$89,000	4.6	$1,388,000	72.3	$193,000	10.1	$13,000	0.7	$236,000	12.3	$1,919,000
1964	$20,000	0.5	$1,430,000	38.9	$451,000	12.3	$1,131,000	30.8	$646,000	17.6	$3,678,000
1965	$50,000	2.0	$2,099,000	82.1	$109,000	4.3	$70,000	2.7	$230,000	9.0	$2,558,000
1966	$50,000	1.2	$2,727,000	64.4	$295,000	7.0	$823,000	19.4	$338,000	8.0	$4,233,000
1967	$49,000	1.9	$2,135,000	82.6	$187,000	7.2	$13,000	0.5	$202,000	7.8	$2,586,000
1968	$30,000	0.7	$1,758,000	40.4	$515,000	11.8	$1,209,000	27.8	$843,000	19.4	$4,355,000
1969	$70,000	4.3	$1,231,000	75.2	$109,000	6.7	$23,000	1.4	$204,000	12.5	$1,637,000
1970	$49,000	1.8	$1,135,000	42.5	$354,000	13.3	$387,000	14.5	$745,000	27.9	$2,670,000
1971	$189,000	10.7	$1,102,000	62.2	$143,000	8.1	$22,000	1.2	$316,000	17.8	$1,772,000
1972	$217,000	6.3	$1,795,000	52.0	$135,000	3.9	$473,000	13.7	$834,000	24.1	$3,454,000
1973	$122,000	2.0	$3,214,000	52.2	$320,000	5.2	$363,000	5.9	$2,134,000	34.7	$6,153,000
1974	$210,000	3.2	$3,058,000	46.5	$843,000	12.8	$946,000	14.4	$1,521,000	23.1	$6,578,000
1975	$65,000	1.0	$2,596,000	39.0	$821,000	12.3	$423,000	6.4	$2,753,000	41.3	$6,658,000
1976	$276,000	2.0	$8,626,000	63.2	$818,000	6.0	$1,879,000	13.8	$2,040,000	15.0	$13,639,000
1977	$525,000	2.4	$13,274,000	61.8	$933,000	4.3	$772,000	3.6	$5,991,000	27.9	$21,495,000
1978	$667,000	2.0	$26,128,000	80.3	$1,388,000	4.3	$2,154,000	6.6	$2,217,000	6.8	$32,554,000
1979	$625,000	4.3	$8,094,000	55.2	$1,658,000	11.3	$89,000	0.6	$4,201,000	28.6	$14,667,000
1980	$417,000	3.2	$7,932,000	61.6	$902,000	7.0	$2,114,000	16.4	$1,516,000	11.8	$12,881,000
1981	$422,000	2.6	$11,071,000	67.9	$2,638,000	16.2	$179,000	1.1	$2,005,000	12.3	$16,315,000
1982	$753,000	2.1	$25,029,000	69.0	$4,139,000	11.4	$515,000	1.4	$5,851,000	16.1	$36,287,000
1983	$585,000	2.0	$23,841,000	81.5	$1,603,000	5.5	$38,000	0.1	$3,195,000	10.9	$29,262,000
1984	$311,990	1.8	$12,445,633	71.8	$2,041,480	11.8	$522,419	3.0	$2,007,827	11.6	$17,329,349
1985	$799,173	2.3	$27,479,840	80.0	$3,358,083	9.8	$57,440	0.2	$2,646,553	7.7	$34,341,089
1986	$881,356	1.9	$37,665,832	83.3	$2,838,881	6.3	$698,527	1.5	$3,123,485	6.9	$45,208,081
1987	$1,609,681	1.6	$96,331,886	94.9	$2,368,968	2.3	$84,547	0.1	$1,115,477	1.1	$101,510,559
1988	$1,204,321	1.0	$111,102,230	91.2	$4,731,340	3.9	$650,309	0.5	$4,113,356	3.4	$121,801,556
1989	$803,494	1.4	$56,194,753	95.0	$1,674,393	2.8	$86,012	0.1	$415,535	0.7	$59,174,187
1990	$436,822	1.1	$35,804,485	88.0	$2,419,202	5.3	$512,590	1.3	$1,495,827	3.7	$40,668,906
1991	$348,553	2.3	$12,259,753	80.4	$1,996,348	13.1	$5,472	0.0	$643,392	4.2	$15,253,518
1992	$634,383	0.6	$96,038,337	96.0	$2,262,323	2.3	$404,990	0.4	$740,618	0.7	$100,080,651

Appendix A.9. Commercial herring harvest by fishery, Upper Cook Inlet, 1973-1992.

	Harvest (Tons)			
Year	Eastside	Chinitna Bay	Tuxedni Bay	Total
1973	13.8	0	0	13.8
1974	36.7	0	0	36.7
1975	6.2	0	0	6.2
1976	5.8	0	0	5.8
1977	17.3	0	0	17.3
1978	8.3	55.3	0	63.6
1979	67.3	96.2	24.8	188.3
1980	37.4	20.0	86.5	143.9
1981	86.2	50.5	84.9	221.6
1982	60.2	91.8	50.2	202.2
1983	165.3	49.2	238.2	452.7
1984	117.5	90.6	159.0	367.1
1985	121.7	47.4	220.5	389.6
1986	178.9	111.1	191.9	481.9
1987	130.5	65.1	152.5	348.1
1988	50.7	23.4	14.1	88.2
1989	55.2	122.3	34.3	211.7
1990	55.4	55.9	16.1	127.4
1991	13.4	15.7	1.6	30.7
1992	24.7	10.4	0	35.2

Appendix A.10. Commercial harvest of razor clams in Cook Inlet, 1919-1992.

Year	Pounds	Year	Pounds
1919	76,963	1956	0
1920	11,952	1957	0
1921	72,000	1958	0
1922	510,432	1959	0
1923	470,280	1960	372,872
1924	156,768	1961	277,830
1925	0	1962	195,650
1926	0	1963	0
1927	25,248	1964	0
1928	0	1965	0
1929	0	1966	0
1930	0	1967	0
1931	No Record	1968	0
1932	93,840	1969	0
1933	No Record	1970	0
1934	No Record	1971	14,755
1935	No Record	1972	31,360
1936	No Record	1973	34,415
1937	8,328	1974	0
1938	No Record	1975	10,020
1939	No Record	1976	0
1940	No Record	1977	1,762
1941	0	1978	45,931
1942	0	1979	144,358
1943	0	1980	140,420
1944	0	1981	441,949
1945	15,000	1982	460,639
1946	11,424	1983	269,618
1947	11,976	1984	261,742
1948	2,160	1985	319,034
1949	9,672	1986	258,632
1950	304,073	1987	312,349
1951	112,320	1988	392,610
1952	0	1989	222,747
1953	0	1990	323,602
1954	0	1991	201,320
1955	0	1992	296,727

Appendix A.11. Escapement goals and counts of sockeye salmon in selected streams of Upper Cook Inlet, 1968-1992.

Year	Kenai River		Kasilof River		Fish Creek	
	Escapement Goal	Escapement Estimate[1]	Escapement Goal	Escapement Estimate[1]	Escapement Goal	Escapement Estimate[2]
1968	0	88,000	0	93,000	0	19,616
1969	150,000	53,000	75,000	46,000	0	12,456
1970	150,000	73,000	75,000	37,000	0	25,000
1971	150,000	--	75,000	--	0	31,900
1972	150,000-250,000	318,000	75,000-150,000	112,000	0	6,981
1973	150,000-250,000	367,000	75,000-150,000	40,000	0	2,705
1974	150,000-250,000	161,000	75,000-150,000	64,000	0	16,225
1975	150,000-250,000	142,000	75,000-150,000	48,000	0	29,882
1976	150,000-250,000	380,000	75,000-150,000	140,000	0	14,032
1977	150,000-250,000	708,000	75,000-150,000	155,000	0	5,183
1978	350,000-500,000	399,000	75,000-150,000	117,000	0	3,555
1979	350,000-500,000	285,000	75,000-150,000	152,000	0	68,759
1980	350,000-500,000	464,000	75,000-150,000	187,000	0	62,628
1981	350,000-500,000	408,000	75,000-150,000	257,000	0	51,492
1982	350,000-500,000	620,000	75,000-150,000	180,000	50,000	27,864
1983	350,000-500,000	630,000	75,000-150,000	210,000	50,000	118,797
1984	350,000-500,000	345,000	75,000-150,000	232,000	50,000	192,352
1985	350,000-500,000	501,000	75,000-150,000	503,000	50,000	68,577
1986	350,000-500,000	501,000	150,000-250,000	276,000	50,000	29,800
1987	400,000-700,000	1,597,000	150,000-250,000	249,000	50,000	91,215
1988	400,000-700,000	1,021,500	150,000-250,000	202,000	50,000	70,303
1989	400,000-700,000	1,599,959	150,000-250,000	158,206	50,000	67,224
1990	400,000-700,000	658,908	150,000-250,000	144,289	50,000	48,717
1991	400,000-700,000	647,597	150,000-250,000	238,269	50,000	59,269
1992	400,000-700,000	994,760	150,000-250,000	183,178	50,000	72,108

Year	Susitna River		Crescent River		Packers Creek	
	Escapement Goal	Escapement Estimate[1]	Escapement Goal	Escapement Estimate[1]	Escapement Goal	Escapement Estimate[2]
1978	200,000	94,000	0	N/C	0	N/C
1979	200,000	157,000	50,000	87,000	0	N/C
1980	200,000	191,000	50,000	91,000	0	16,457
1981	200,000	340,000	50,000	41,000	0	13,024
1982	200,000	216,000[3]	50,000	59,000	0	15,826
1983	200,000	112,000[4]	50,000	92,000	0	18,403
1984	200,000	194,000[5]	50,000	118,000	0	30,864
1985	200,000	228,000[5]	50,000	129,000	0	36,850
1986	100,000-150,000[6]	92,000[6]	50,000-100,000	N/A	0	29,604
1987	100,000-150,000[6]	66,000[6]	50,000-100,000	119,000	0	35,401
1988	100,000-150,000[6]	52,347[6]	50,000-100,000	57,716	15,000-25,000	18,607
1989	100,000-150,000[6]	96,269[6]	50,000-100,000	71,064	15,000-25,000	22,304
1990	100,000-150,000[6]	140,379[6]	50,000-100,000	52,180	15,000-25,000	31,868
1991	100,000-150,000[6]	109,632[6]	50,000-100,000	44,578	15,000-25,000	41,275
1992	100,000-150,000[6]	66,057[6]	50,000-100,000	58,227	15,000-25,000	30,143

[1] Derived from sonar counters unless otherwise noted.
[2] Weir counts.
[3] Poor field conditions make this a minimum estimate; mark/recapture estimate from Su-Hydro studies was 265,000.
[4] Minimum estimate. Combining Yentna sonar with Sunshine Station mark/recapture estimate yields 176,000.
[5] Yentna River sonar count combined with Sunshine Station mark/recapture estimate.
[6] Yentna River only.

Appendix A.12. Average price paid for commercially harvested salmon, Upper Cook Inlet, 1969-1992.[1]

Year	Chinook	Sockeye	Coho	Pink	Chum
1969	0.38	0.28	0.19	0.14	0.12
1970	0.40	0.28	0.25	0.14	0.14
1971	0.37	0.30	0.21	0.15	0.15
1972	0.47	0.34	0.27	0.19	0.20
1973	0.62	0.65	0.50	0.30	0.42
1974	0.88	0.91	0.66	0.46	0.53
1975	0.54	0.63	0.54	0.35	0.41
1976	0.92	0.76	0.61	0.37	0.54
1977	1.26	0.86	0.72	0.38	0.61
1978	1.16	1.32	0.99	0.34	0.51
1979	1.63	1.41	0.98	0.34	0.88
1980	1.15	0.85	0.57	0.34	0.53
1981	1.46	1.20	0.83	0.38	0.65
1982	1.27	1.10	0.72	0.18	0.49
1983	0.97	0.74	0.45	0.18	0.36
1984	1.08	1.00	0.64	0.21	0.39
1985	1.20	1.20	0.70	0.20	0.45
1986	0.90	1.40	0.60	0.15	0.38
1987	1.40	1.50	0.80	0.22	0.45
1988	1.30	2.47	1.20	0.37	0.76
1989	1.25	1.70	0.75	0.40	0.47
1990	1.20	1.55	0.75	0.25	0.60
1991	1.20	1.00	0.77	0.12	0.35
1992	1.50	1.60	0.75	0.15	0.40

[1] Expressed as dollars paid per pound.
Data Source: 1969-1983 - Commercial Fisheries Entry Commission.
1984-1992 - Random fish-ticket averages.

Appendix A.13. Average weight[1] (in pounds) of commercially harvested salmon, Upper Cook Inlet, 1972-1992.

Year	Chinook	Sockeye	Coho	Pink	Chum
1972	28.76	6.00	6.18	3.96	6.62
1973	37.85	7.38	6.13	3.71	7.61
1974	36.20	6.76	6.39	4.25	7.21
1975	25.14	6.07	6.86	3.60	7.06
1976	27.63	6.82	6.43	4.04	8.04
1977	28.19	7.52	6.73	3.67	7.96
1978	33.24	7.55	6.39	3.75	7.60
1979	27.93	6.21	6.38	3.58	7.34
1980	26.29	5.93	5.83	3.48	7.32
1981	23.64	6.41	6.55	3.70	7.66
1982	28.42	6.98	7.24	3.62	8.33
1983	29.64	6.38	6.90	3.04	7.96
1984	28.77	5.91	7.09	4.03	7.57
1985	27.65	5.64	7.19	3.27	7.61
1986	25.91	5.77	6.41	3.72	7.42
1987	28.99	6.73	6.57	3.50	7.10
1988	29.67	6.61	7.05	3.74	7.67
1989	24.04	6.60	6.58	3.19	7.25
1990	22.60	6.41	6.45	3.40	7.10
1991	21.46	5.63	6.09	3.11	6.56
1992	24.63	6.59	6.43	3.88	6.75
Average	27.93	6.47	6.56	3.63	7.41

[1] Total poundage divided by numbers of fish from fish ticket totals.

Appendix A.14. Registered units of gillnet fishing effort by gear type in Cook Inlet, 1960-1992.[1]

	Drift			Set			
Year	Resident	Non-Resident	Sub-total	Resident	Non-Resident	Sub-total	Total
1960	221	67	288	511	59	570	858
1961	279	93	372	564	22	586	958
1962	260	112	372	589	28	617	989
1963	333	139	472	626	34	660	1,132
1964	323	145	468	596	35	631	1,099
1965	329	145	474	556	34	590	1,064
1966	328	176	504	580	48	628	1,132
1967	350	186	536	554	50	604	1,140
1968	407	204	611	638	43	681	1,292
1969	497	208	687	686	42	728	1,415
1970	537	220	757	707	65	772	1,529
1971	519	191	710	693	38	731	1,441
1972	419	152	571	672	35	701	1,272
1973	516	146	662	632	43	775	1,437
1974	458	150	608	764	39	803	1,411
1975	291	162	453	613	44	657	1,110
1976	343	171	514	669	42	711	1,225
1977	360	179	539	690	41	731	1,270
1978	366	183	549	698	44	742	1,291
1979	372	182	554	700	44	744	1,298
1980	373	179	554	697	47	744	1,298
1981	414	185	599	688	59	747	1,346
1982	416	175	591	697	51	748	1,339
1983	417	170	587	685	60	745	1,332
1984	426	162	588	672	72	744	1,332
1985	420	170	590	666	65	731	1,321
1986	436	178	614	682	76	758	1,372
1987	422	164	586	666	77	743	1,329
1988	421	163	584	659	82	741	1,325
1989	420	165	585	648	95	743	1,328
1990	408	174	585	648	97	745	1,330
1991	414	168	582	643	98	741	1,323
1992	405	178	583	638	107	745	1,328

[1] Source: 1960-74 ADF&G unpublished reports, 1975-92 Commercial Fisheries Entry Commission

Appendix A.15. Forecast[1] and projected[2] commercial harvests of salmon by species, Upper Cook Inlet, 1984-1991.

	Sockeye			Coho			Pink			Chum			Chinook		
Year	Forecast	Actual	Error	Projected	Actual	Error	Projected	Actual	Error	Projected	Actual	Error	Projected	Actual	Error
1984	2,200,000	2,102,767	- 4%	250,000	442,619	+77%	1,700,000	622,510	-63%	350,000	684,124	+95%	14,000	8,819	-37%
1985	3,700,000	4,060,260	+10%	250,000	667,213	+167%	112,500	87,828	-22%	700,000	772,829	+10%	17,500	24,086	+38%
1986	4,200,000	4,787,982	+14%	450,000	756,830	+68%	1,250,000	1,299,360	+ 4%	900,000	1,134,173	+26%	32,500	39,240	+21%
1987	4,800,000	9,500,186	+98%	500,000	451,404	-10%	150,000	109,801	-27%	1,000,000	349,132	-65%	30,000	39,661	+32%
1988	5,300,000	6,834,342	+29%	400,000	560,022	+40%	400,000	469,972	+17%	800,000	708,573	-11%	35,000	29,060	-17%
1989	2,500,000	5,010,698	+100%	400,000	339,201	-15%	100,000	67,430	-33%	800,000	122,027	-85%	30,000	26,742	-11%
1990	4,300,000	3,604,064	-16%	250,000	500,026	+100%	600,000	603,630	+1%	400,000	351,197	-12%	25,000	16,105	-36%
1991	3,200,000	2,177,576	-32%	400,000	425,724	+6%	90,000	14,663	-84%	500,000	280,223	-44%	20,000	13,535	-32%
1992	3,600,000	9,108,340	+153%	400,000	468,911	+17%	400,000	695,859	+74%	350,000	274,303	-22%	20,000	17,171	-14%
1993	2,500,000			450,000			25,000			350,000			15,000		
Average Error (unsigned)			51%			56%			36%			41%			26%

[1] Harvest forecasts have typically been prepared using average return per spawner values, parent-year escapements and average marine maturity schedules or time series modeling tempered by available juvenile production data.

[2] Harvest projections are prepared using subjective estimates of parent-year escapements, gross trends in harvest and expected intensity of fishery.

Appendix A.16. Subsistence and personal use salmon harvest, Upper Cook Inlet, 1980-1992.

Fishery	No. of Permits	Chinook	Sockeye	Coho	Pink	Chum
Tyonek Subsistence						
1980	67	1,936	262	0	0	0
1981	70	2,002	269	64	32	15
1982	69	1,565	209	113	15	4
1983	75	2,750	185	40	0	2
1984	75	2,354	310	66	3	23
1985	76	1,720	44	8	0	10
1986	65	1,523	198	210	45	44
1987	64	1,552	161	149	5	24
1988	47	1,474	52	185	6	9
1989	49	1,314	67	175	0	1
1990	42	797	92	366	124	10
1991	57	1,105	25	80	0	0
1992	57	872	42	34	5	12
Non-Commercial Gillnet						
1981	1,108	68	466	12,713	149	305
Kasilof Personal Use						
1982	649	372	7,543	24	17	0
1983	684	307	8,846	0	0	0
1984	698	165	12,926	0	0	0
1985	692	203	10,746	0	0	0
1986	N/A	168	9,609	0	0	0
1987	N/A	184	9,375	0	0	0
1988	N/A	118	9,803	0	0	0
1989	N/A	186	9,928	0	0	0
1990	N/A	133	7,123	0	0	0
1991	N/A	34	8,380	0	0	0
Fall Coho Personal Use/Subsistence						
1983	295	0	0	712	0	0
1984	309	1	2	2,261	10	7
1985	998	50	805	11,265	108	53
1986	892	0	0	2,422	0	0
1987	486	8	9	2,213	2	37
1988	449	2	19	2,662	38	10
1989	365	0	0	2,376	0	0
1990	420	0	0	2,290	0	0
1991	360	0	0	2,703	0	8
Northern/Central Districts Subsistence						
1985	638	117	2,218	1,427	90	121
1991	7,065	550	32,230	3,520	537	1,598
1992	9,200	1,139	46,419	10,320	1,818	1,827
Knik Arm Subsistence						
1985	405	4	1,649	2,055	48	212
Kenaitze Tribal Fishery						
1989	N/A	95	2,212	1,814	0	0
1990	N/A	53	3,477	1,117	326	0
1991	N/A	34	2,965	1,945	4	0
1992	N/A	55	2,025	3	3	0